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FIG.1

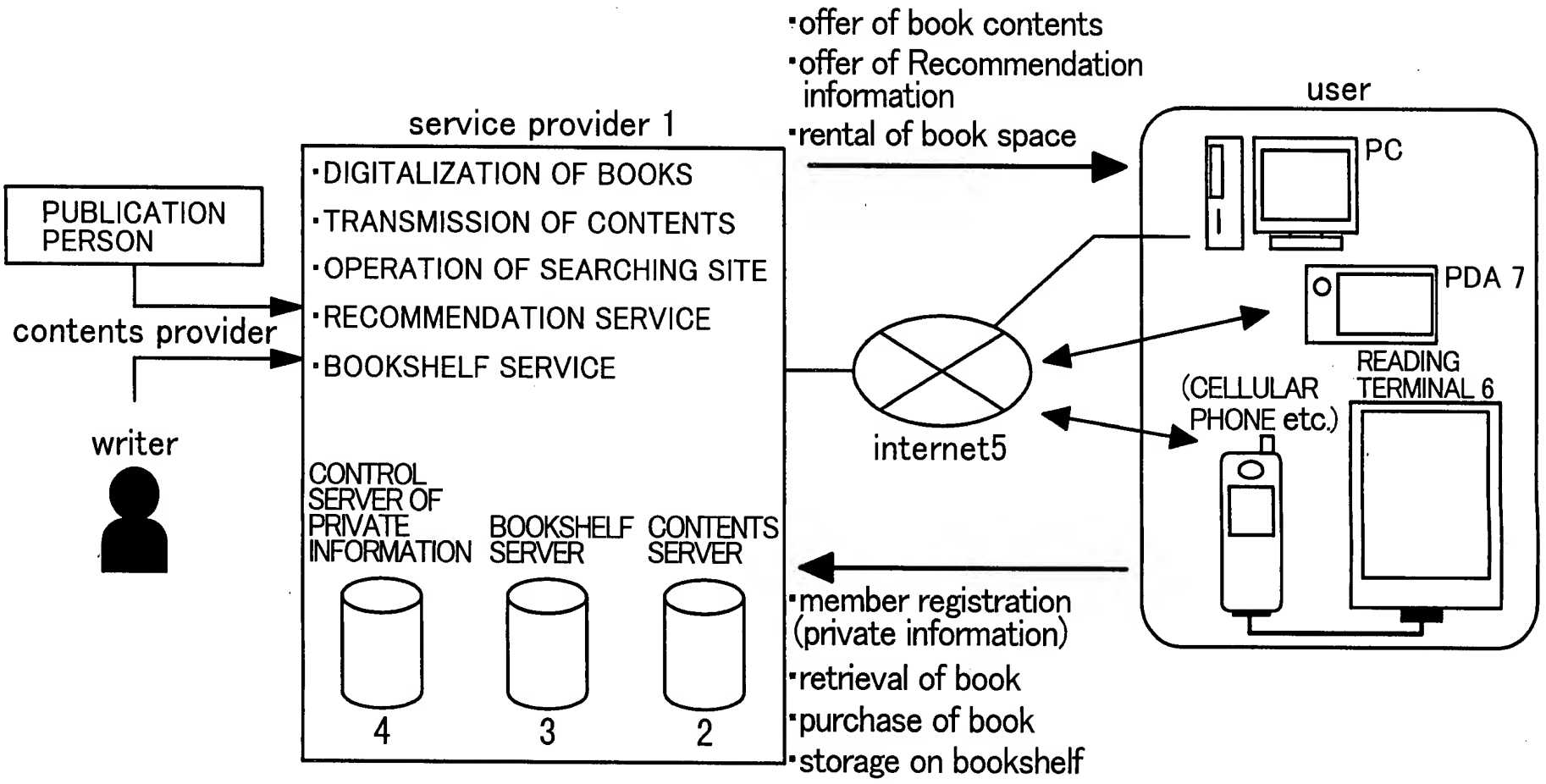
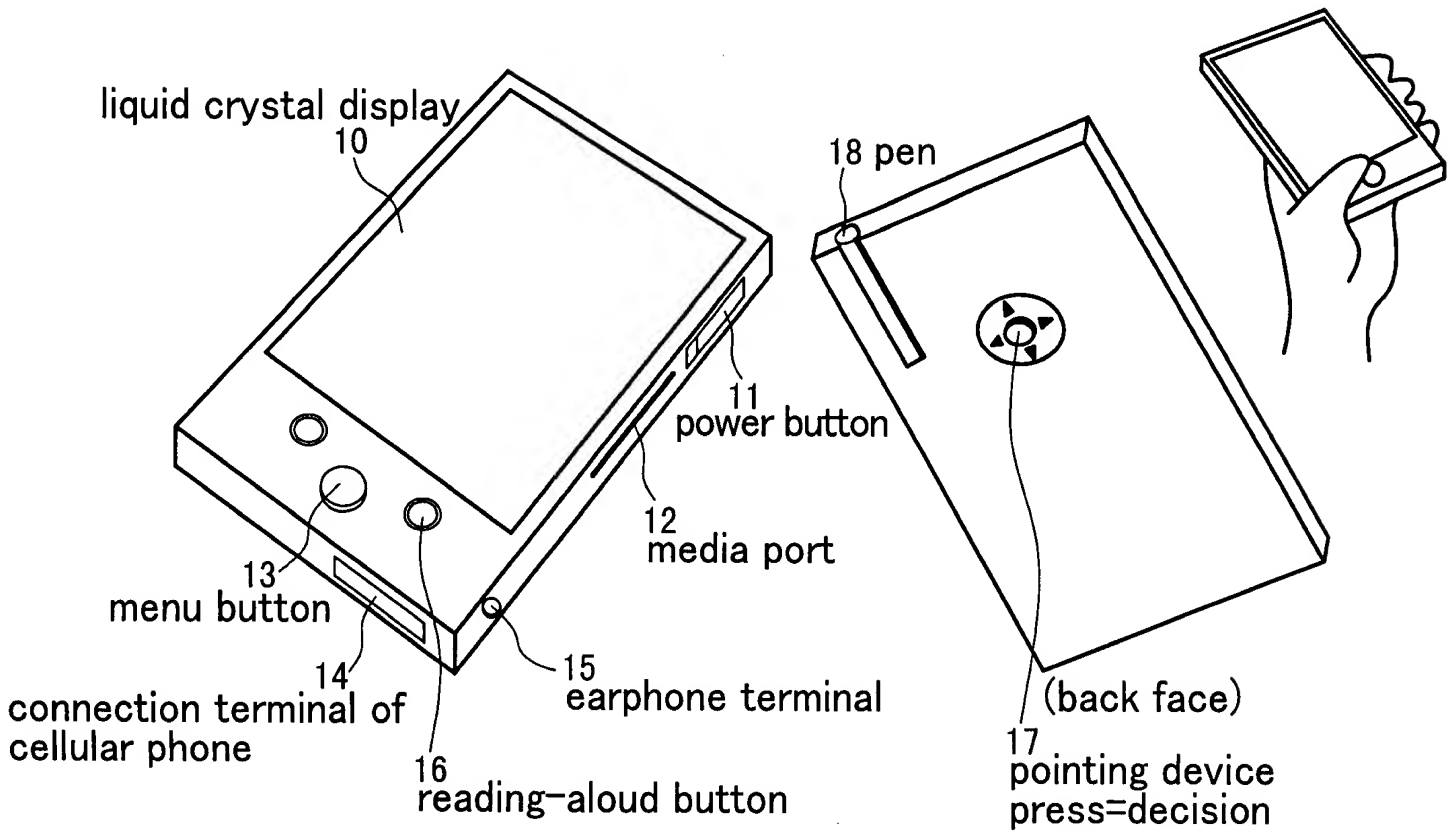

PUBLICATION PERSON
contents provider
writer
service provider 1
·DIGITALIZATION OF BOOKS
·TRANSMISSION OF CONTENTS
·OPERATION OF SEARCHING SITE
·RECOMMENDATION SERVICE
·BOOKSHELF SERVICE
CONTROL SERVER OF PRIVATE INFORMATION
BOOKSHELF SERVER
CONTENTS SERVER
4
3
2
internet5
·offer of book contents
·offer of Recommendation information
·rental of book space
·member registration (private information)
·retrieval of book
·purchase of book
·storage on bookshelf
user
PC
PDA 7
(CELLULAR PHONE etc.)
READING TERMINAL 6

FIG.2


liquid crystal display
10
18 pen
11
power button
12
media port
13
menu button
14
connection terminal of
cellular phone
15
earphone terminal
16
reading-aloud button
(back face)
17
pointing device
press=decision

Posted: 9/25/2006

FIG.3

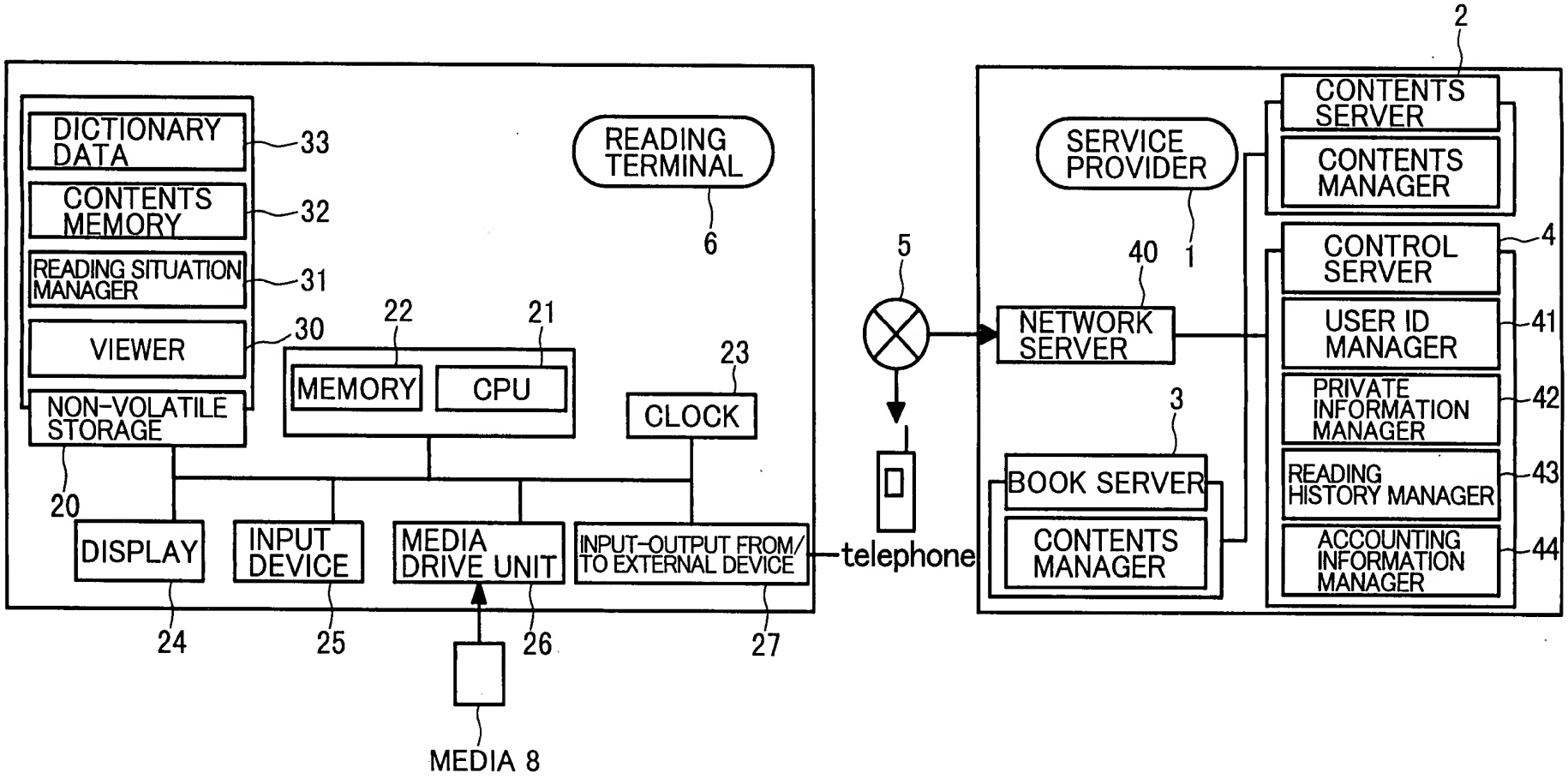


FIG.4A

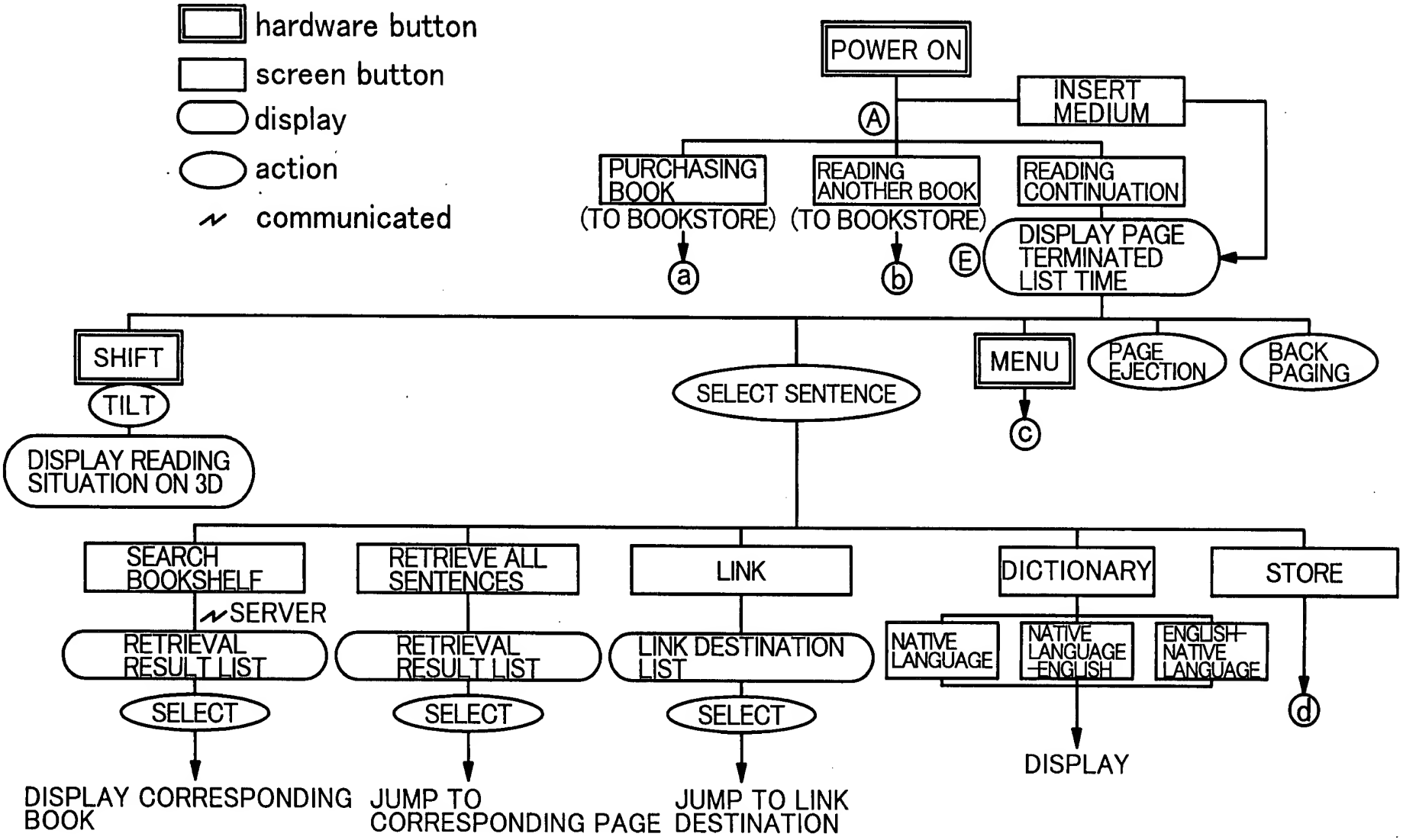

hardware button
screen button
display
action
communicated
POWER ON
INSERT MEDIUM
Ⓐ
PURCHASING BOOK
(TO BOOKSTORE)
READING ANOTHER BOOK
(TO BOOKSTORE)
READING CONTINUATION
ⓐ
ⓑ
Ⓔ
DISPLAY PAGE TERMINATED LIST TIME
SHIFT
TILT
DISPLAY READING SITUATION ON 3D
SELECT SENTENCE
MENU
ⓒ
PAGE EJECTION
BACK PAGING
SEARCH BOOKSHELF
SERVER
RETRIEVAL RESULT LIST
SELECT
DISPLAY CORRESPONDING BOOK
RETRIEVE ALL SENTENCES
RETRIEVAL RESULT LIST
SELECT
JUMP TO CORRESPONDING PAGE
LINK
LINK DESTINATION LIST
SELECT
JUMP TO LINK DESTINATION
DICTIONARY
NATIVE LANGUAGE
NATIVE LANGUAGE →ENGLISH
ENGLISH→ NATIVE LANGUAGE
DISPLAY
STORE
ⓓ

FIG.4B

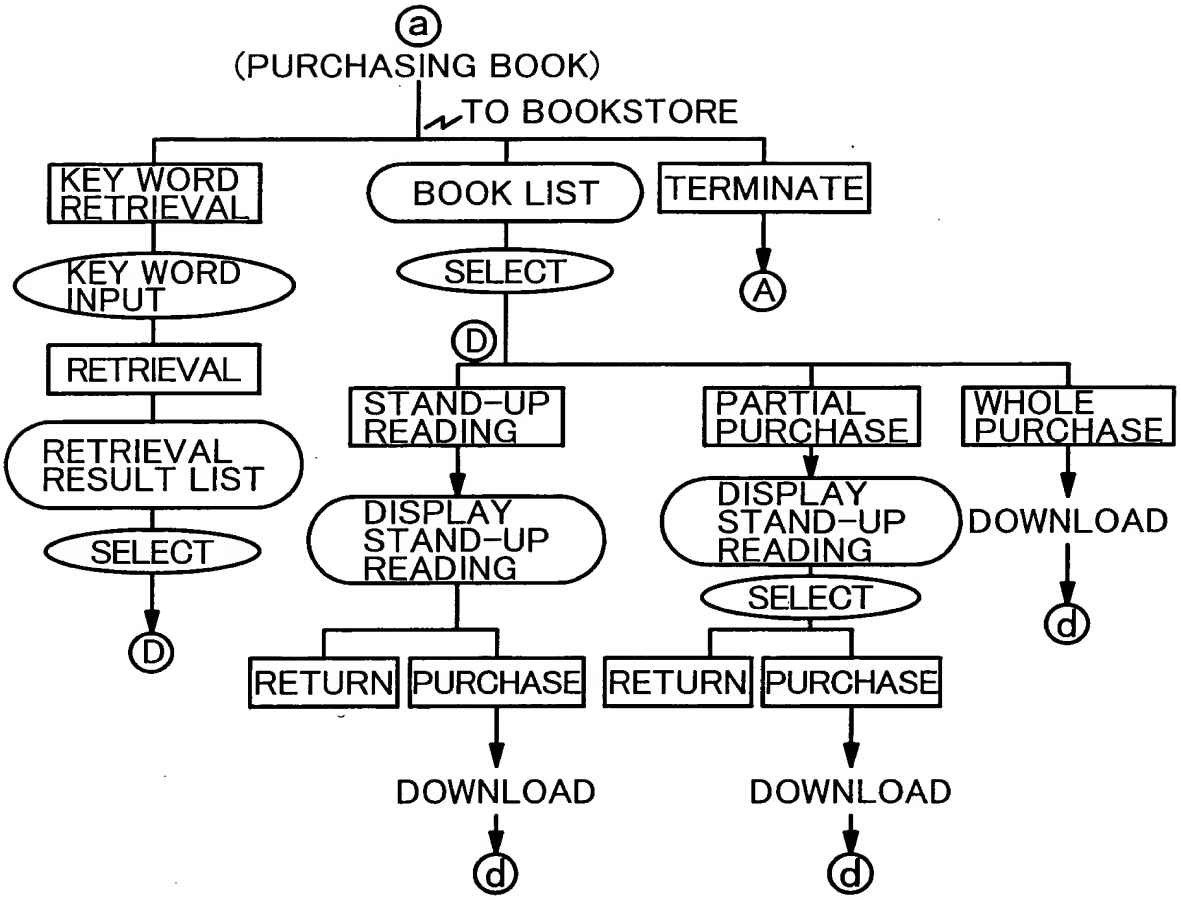

a
(PURCHASING BOOK)
TO BOOKSTORE
KEY WORD RETRIEVAL
BOOK LIST
TERMINATE
KEY WORD INPUT
SELECT
A
D
RETRIEVAL
STAND-UP READING
PARTIAL PURCHASE
WHOLE PURCHASE
RETRIEVAL RESULT LIST
DISPLAY STAND-UP READING
DISPLAY STAND-UP READING
DOWNLOAD
SELECT
SELECT
d
D
RETURN
PURCHASE
RETURN
PURCHASE
DOWNLOAD
DOWNLOAD
d
d

FIG.4C

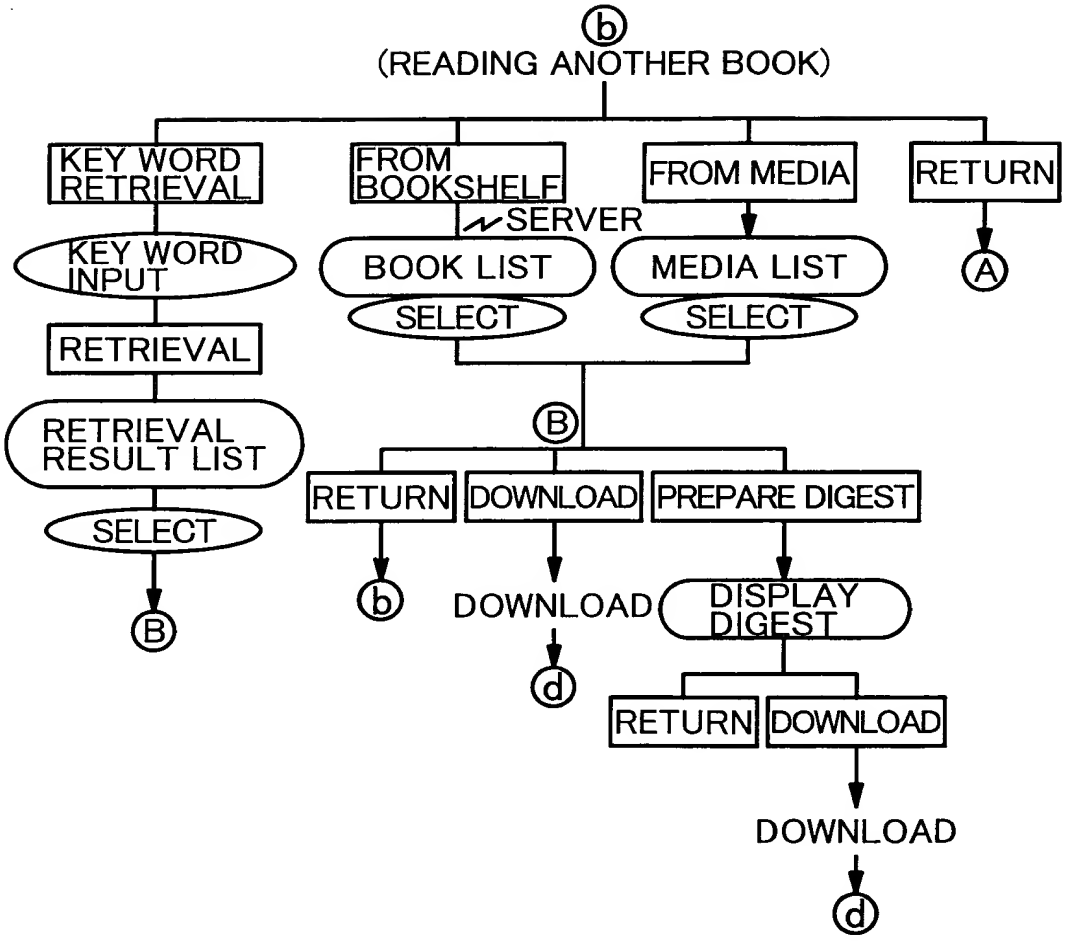

b
(READING ANOTHER BOOK)
KEY WORD RETRIEVAL
FROM BOOKSHELF
FROM MEDIA
RETURN
SERVER
KEY WORD INPUT
BOOK LIST
MEDIA LIST
A
SELECT
SELECT
RETRIEVAL
B
RETRIEVAL RESULT LIST
RETURN
DOWNLOAD
PREPARE DIGEST
SELECT
b
DOWNLOAD
DISPLAY DIGEST
B
d
RETURN
DOWNLOAD
DOWNLOAD
d

FIG.5A

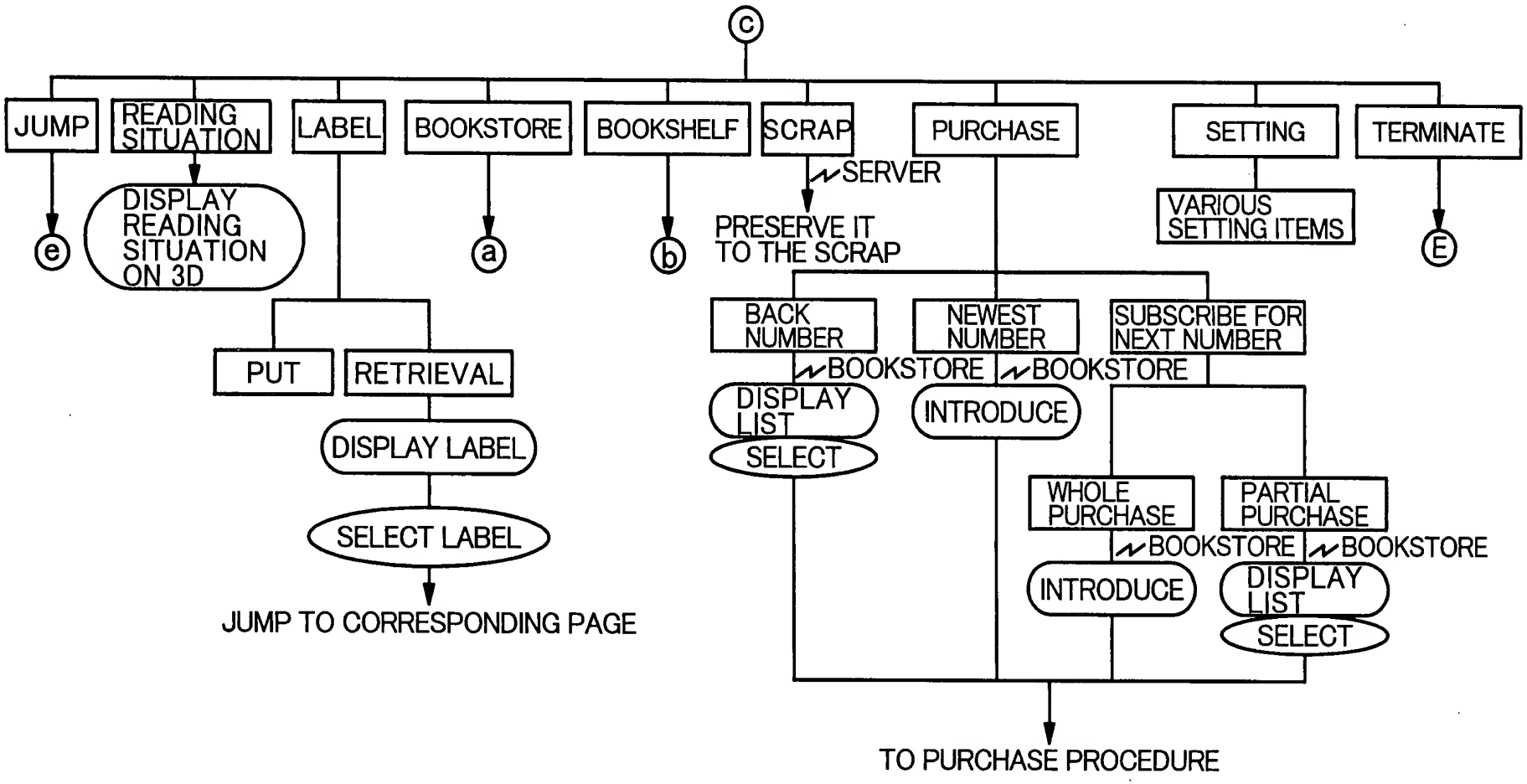

c
JUMP
READING SITUATION
LABEL
BOOKSTORE
BOOKSHELF
SCRAP
PURCHASE
SETTING
TERMINATE
SERVER
e
DISPLAY READING SITUATION ON 3D
a
b
PRESERVE IT TO THE SCRAP
VARIOUS SETTING ITEMS
E
BACK NUMBER
NEWEST NUMBER
SUBSCRIBE FOR NEXT NUMBER
PUT
RETRIEVAL
BOOKSTORE
BOOKSTORE
DISPLAY LIST
INTRODUCE
DISPLAY LABEL
SELECT
WHOLE PURCHASE
PARTIAL PURCHASE
SELECT LABEL
BOOKSTORE
BOOKSTORE
INTRODUCE
DISPLAY LIST
SELECT
JUMP TO CORRESPONDING PAGE
TO PURCHASE PROCEDURE

FIG.5B

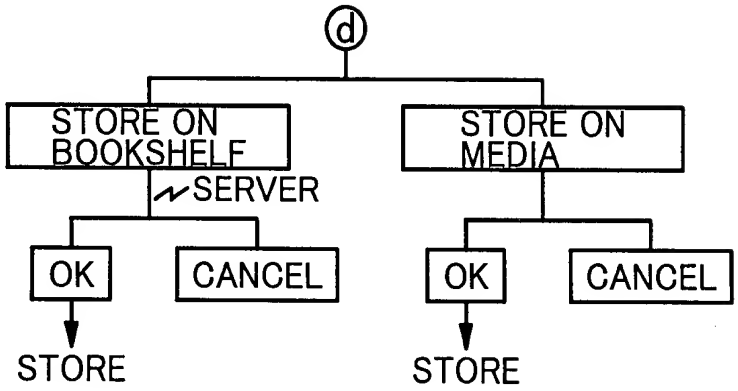

d
STORE ON BOOKSHELF
SERVER
STORE ON MEDIA
OK
CANCEL
OK
CANCEL
STORE
STORE

FIG.5C

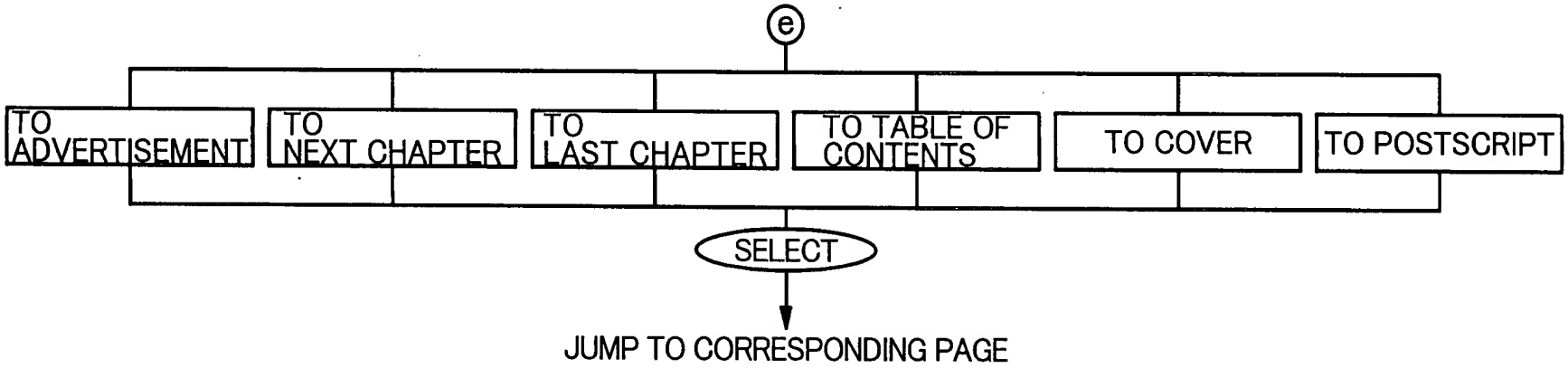

e
TO ADVERTISEMENT
TO NEXT CHAPTER
TO LAST CHAPTER
TO TABLE OF CONTENTS
TO COVER
TO POSTSCRIPT
SELECT
JUMP TO CORRESPONDING PAGE

FIG.6A

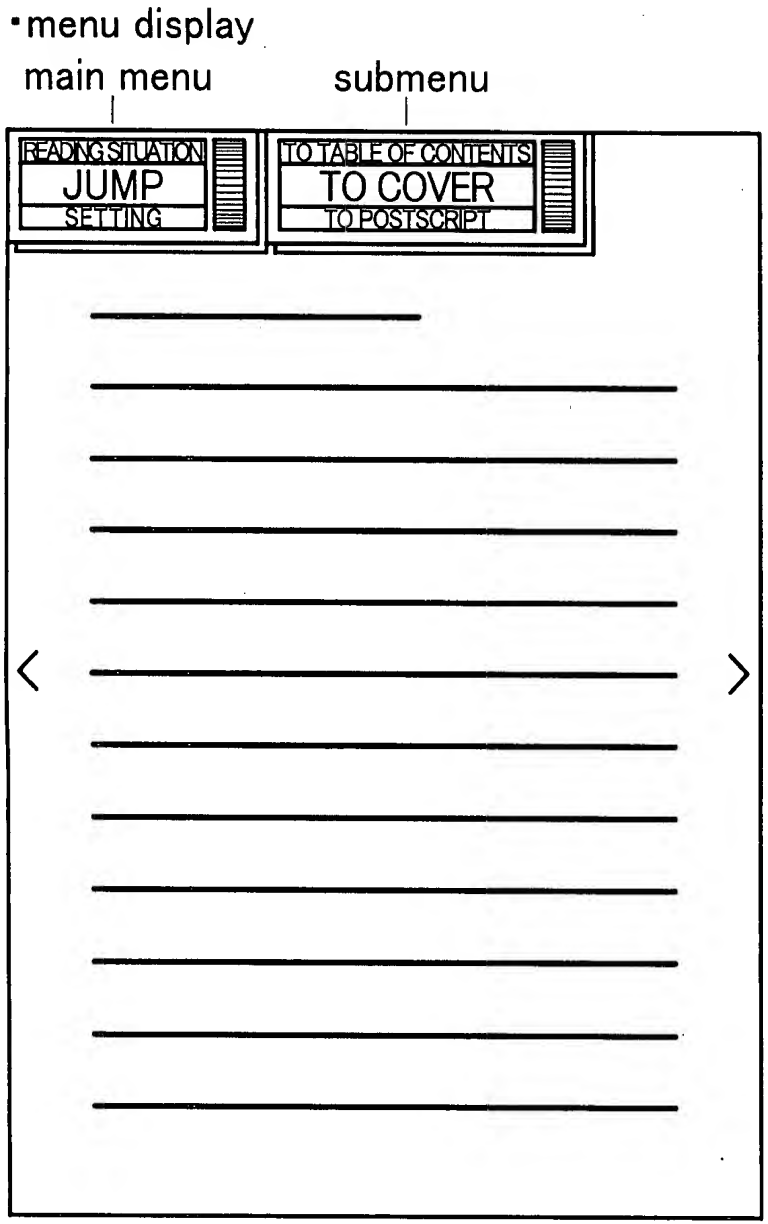

• menu display
main menu
submenu
READING SITUATION
JUMP
SETTING
TO TABLE OF CONTENTS
TO COVER
TO POSTSCRIPT

FIG.6B

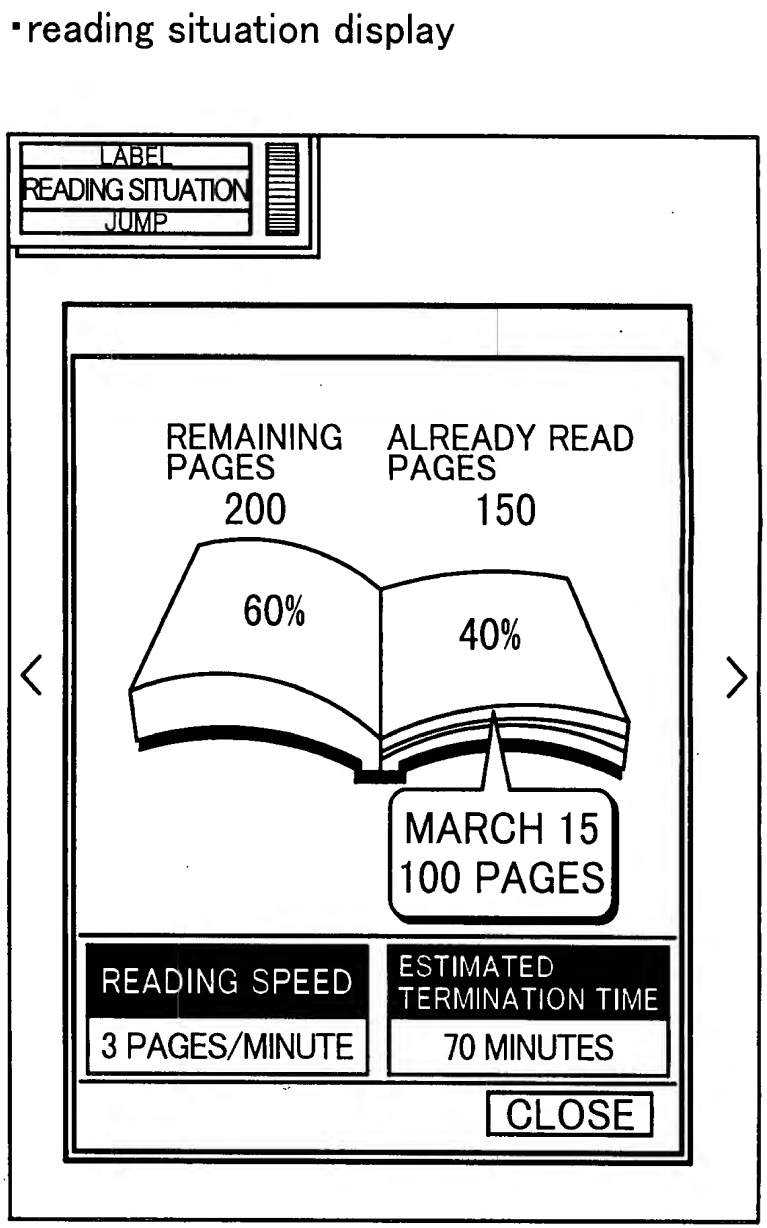

• reading situation display
LABEL
READING SITUATION
JUMP
REMAINING PAGES
200
ALREADY READ PAGES
150
60%
40%
MARCH 15
100 PAGES
READING SPEED
3 PAGES/MINUTE
ESTIMATED TERMINATION TIME
70 MINUTES
CLOSE

FIG.7A

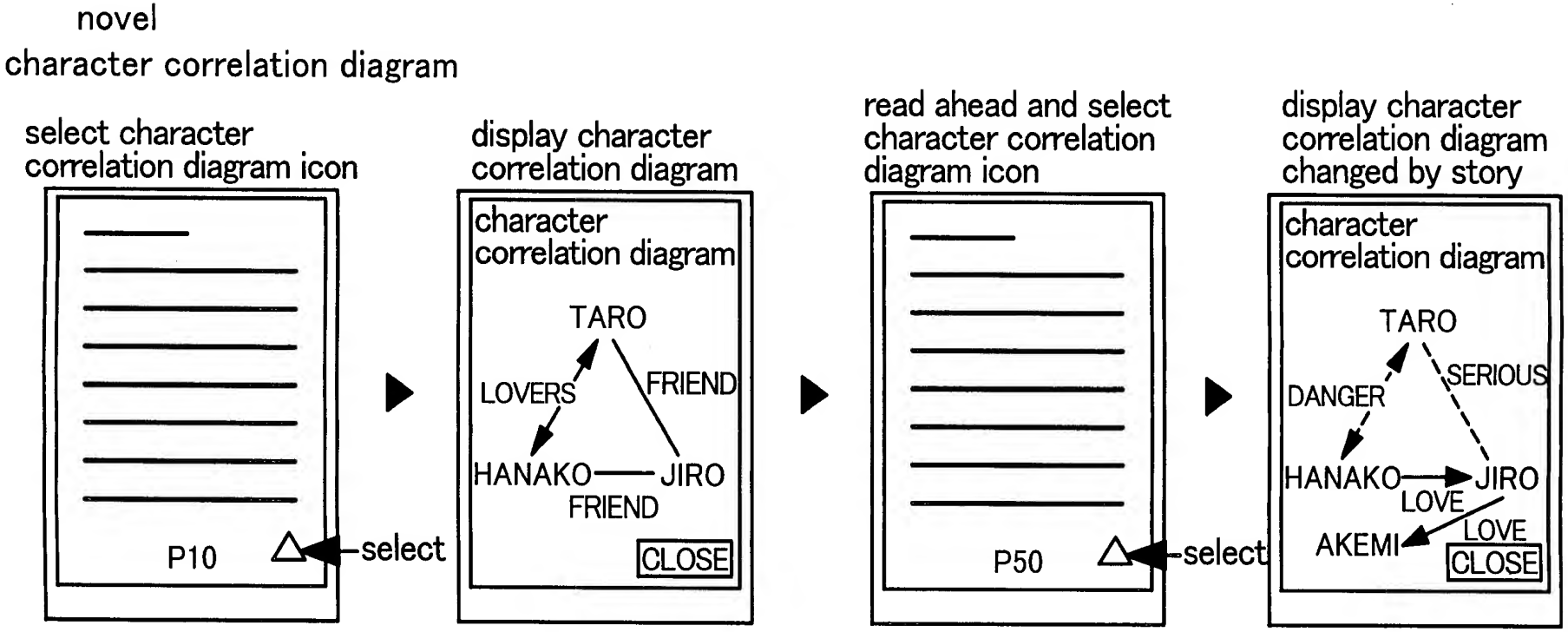

novel
character correlation diagram
select character correlation diagram icon
P10
select
display character correlation diagram
character correlation diagram
TARO
LOVERS
FRIEND
HANAKO
JIRO
FRIEND
CLOSE
read ahead and select character correlation diagram icon
P50
select
display character correlation diagram changed by story
character correlation diagram
TARO
DANGER
SERIOUS
HANAKO
JIRO
LOVE
LOVE
AKEMI
CLOSE

FIG.7B

skip prohibition function

displayed when page are skipped in mystery etc.

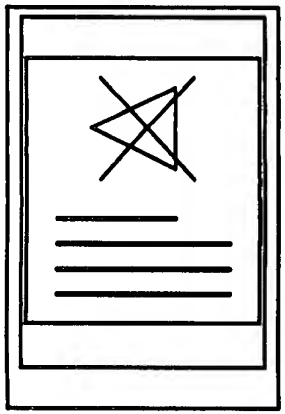


FIG.7C

designation of time

displayed when horror novel etc. are in daytime

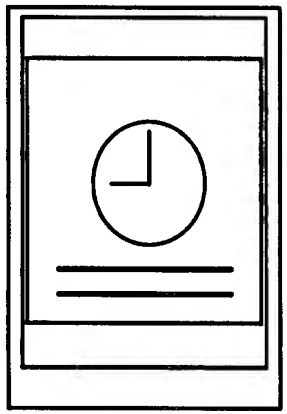


FIG.7D

designation season

displayed when literary novel etc. are opened in season unfit for contents

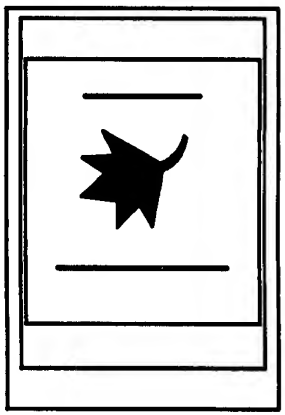


FIG.8

●Newspaper

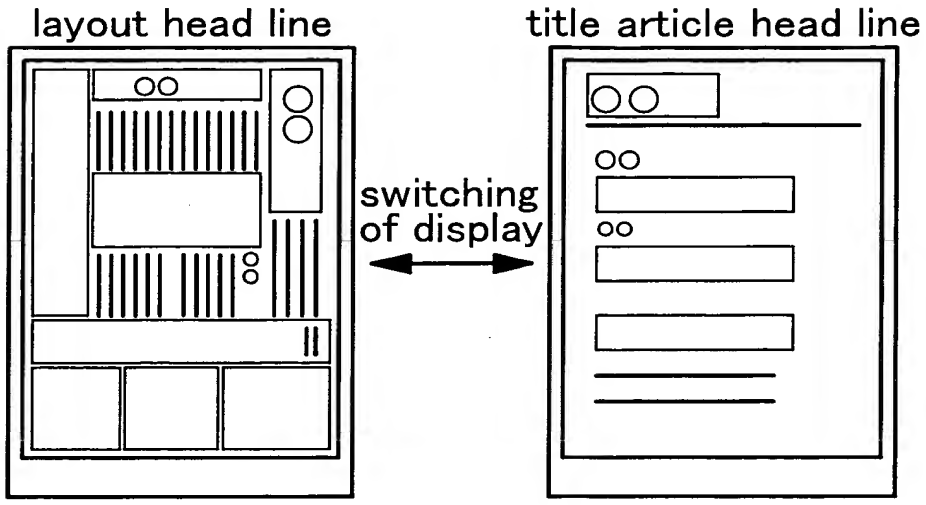


FIG.9

●magazine
overlapped letters display

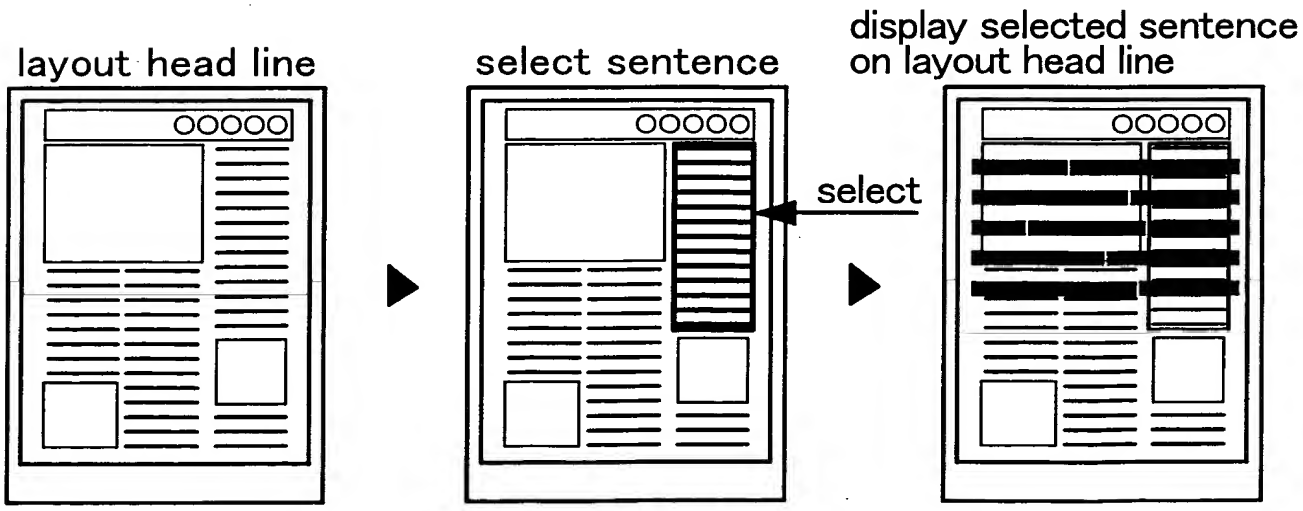


FIG.10A

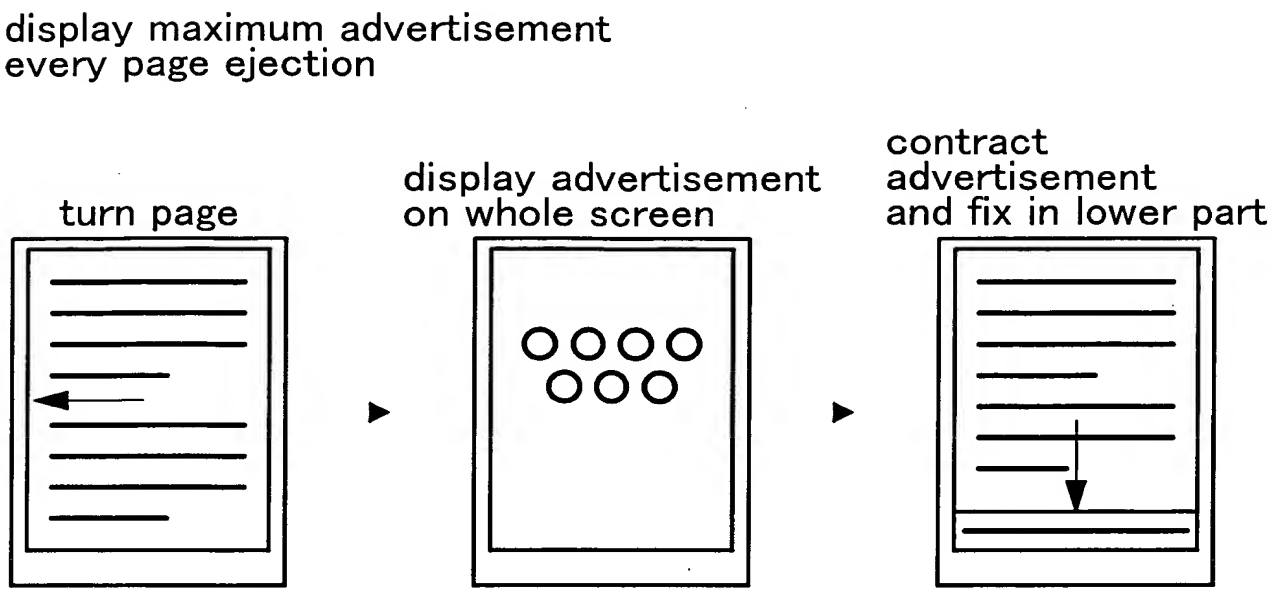


FIG.10B

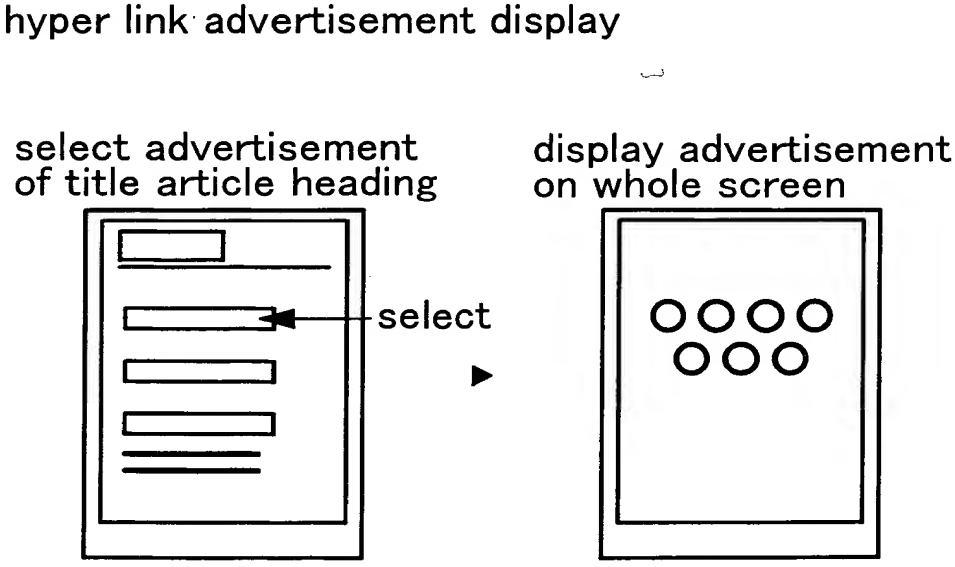


FIG.11A

table of contents dedicated to advertisement

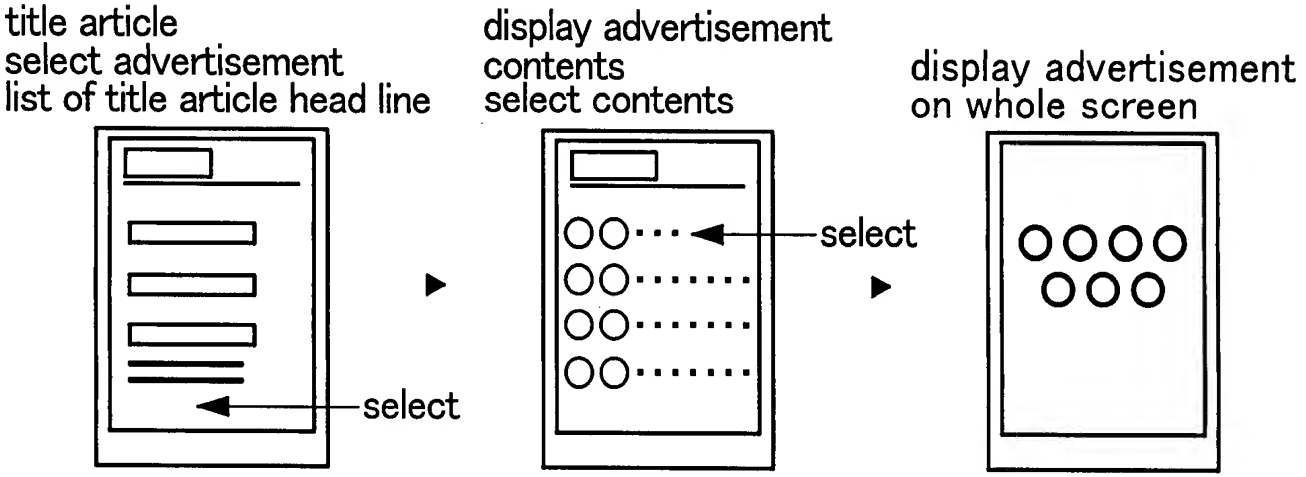


FIG.11B

potion fixed type advertisement display

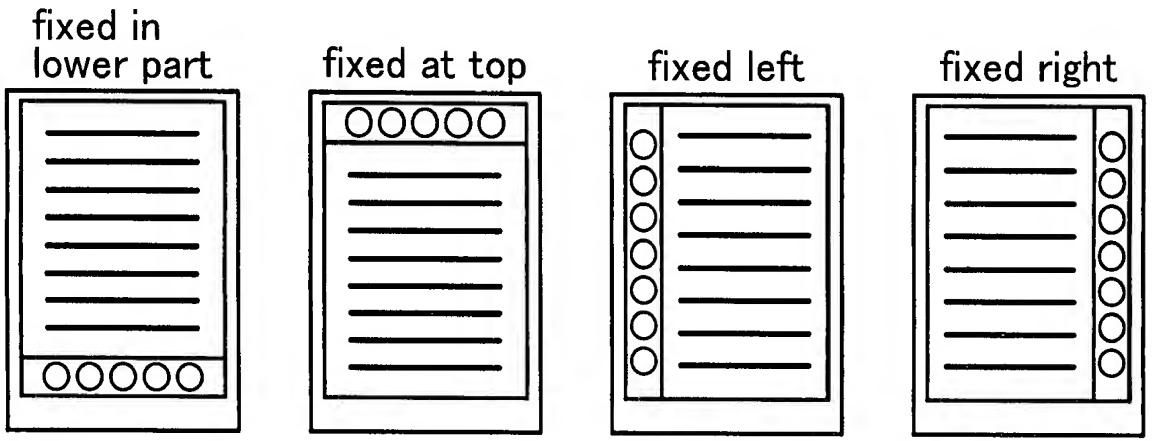


FIG.12A

advertisement display consistent with page contents

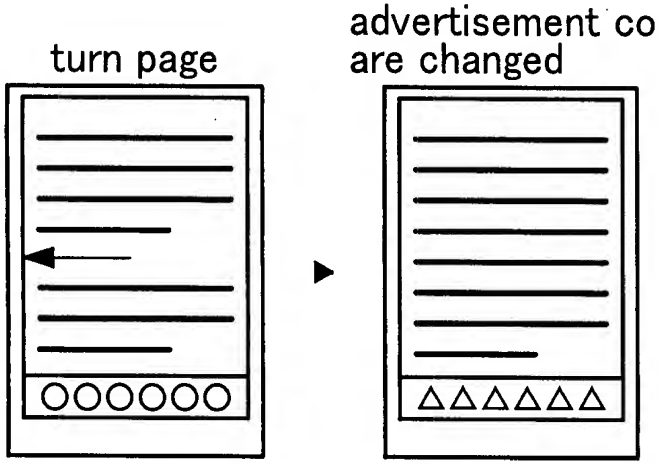
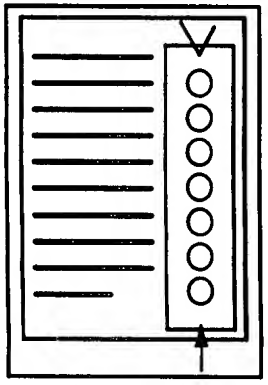


FIG.12B

bookmark with advertisement

insert bookmark into page
termineted last time automatically
display advertisement on bookmark



change advertisement
contents overy opening

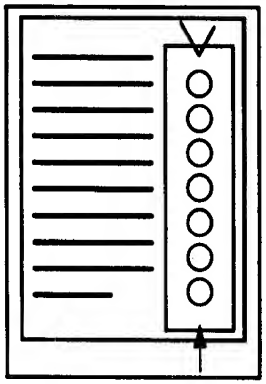


FIG.12C

band with advertisement

display animation
advertisement on band

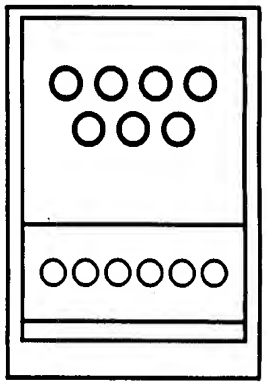


FIG.13 partial purchase

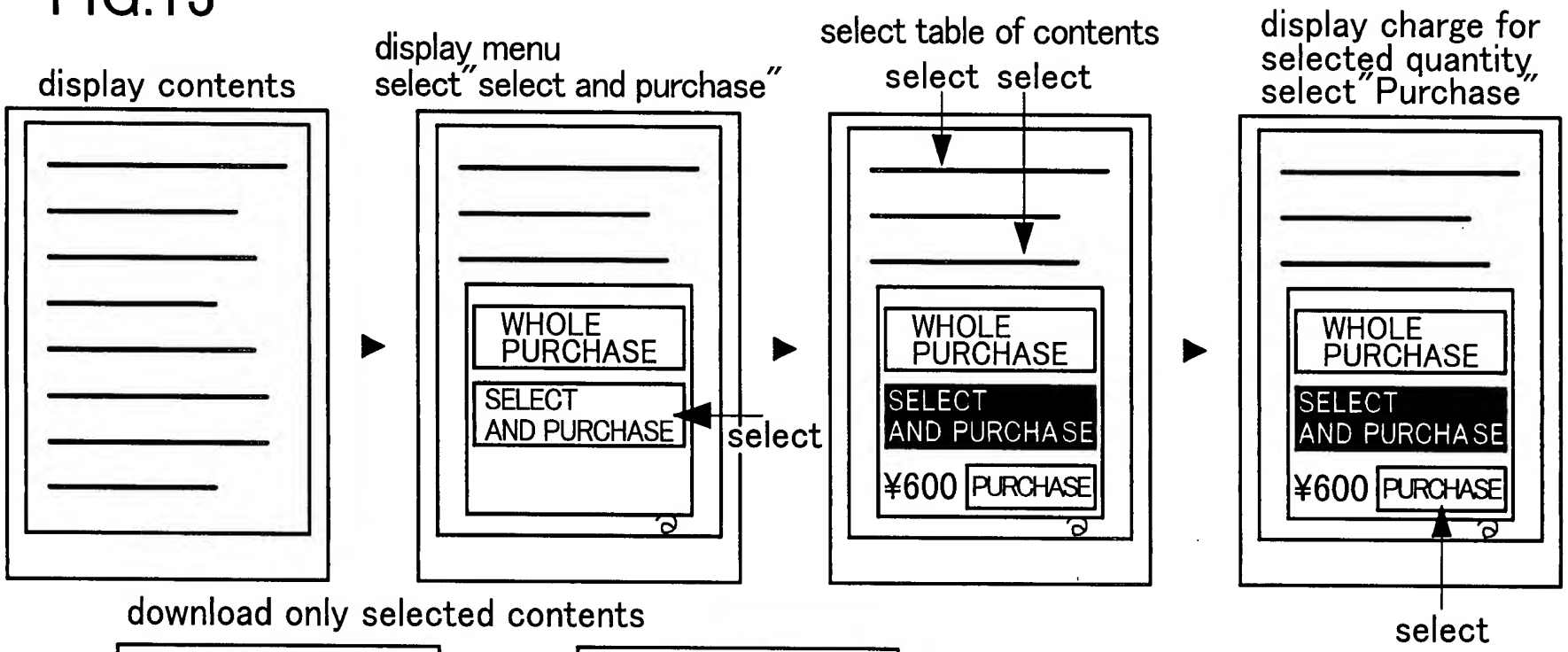


FIG.14 All sentences retrieval

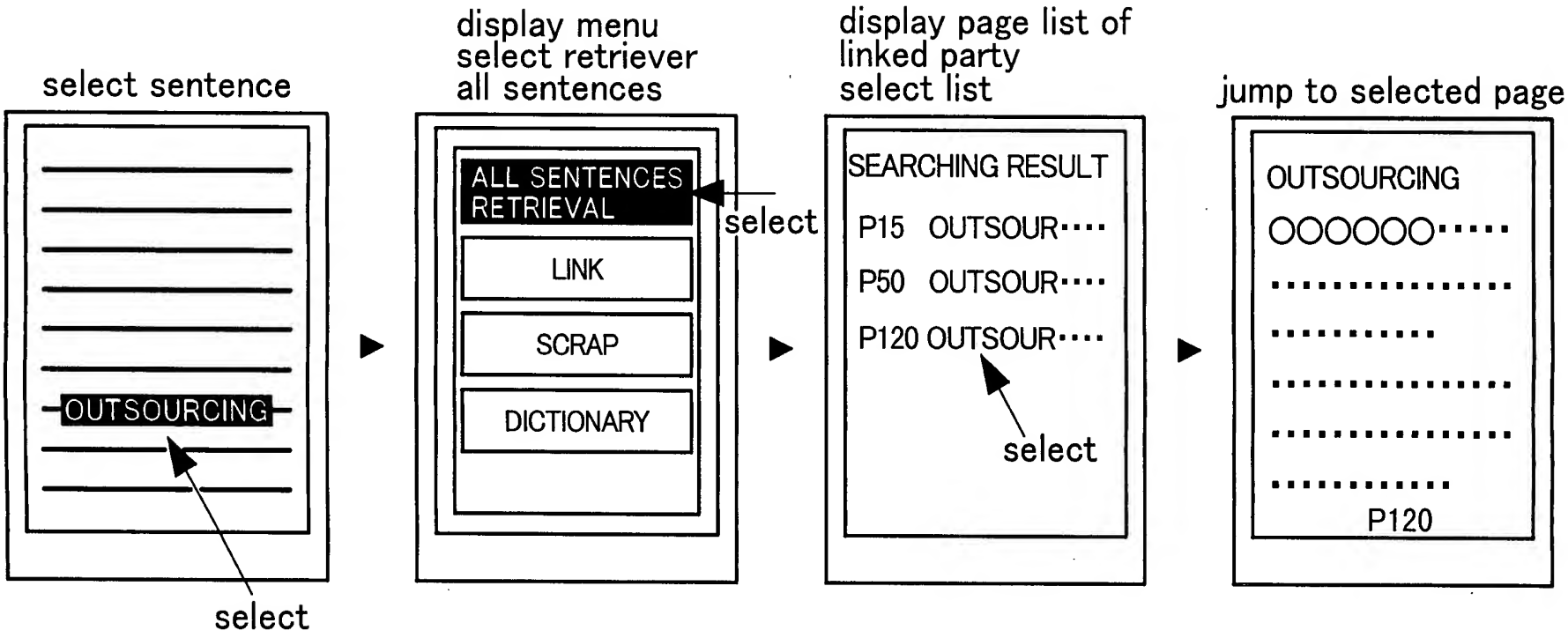


FIG.15A

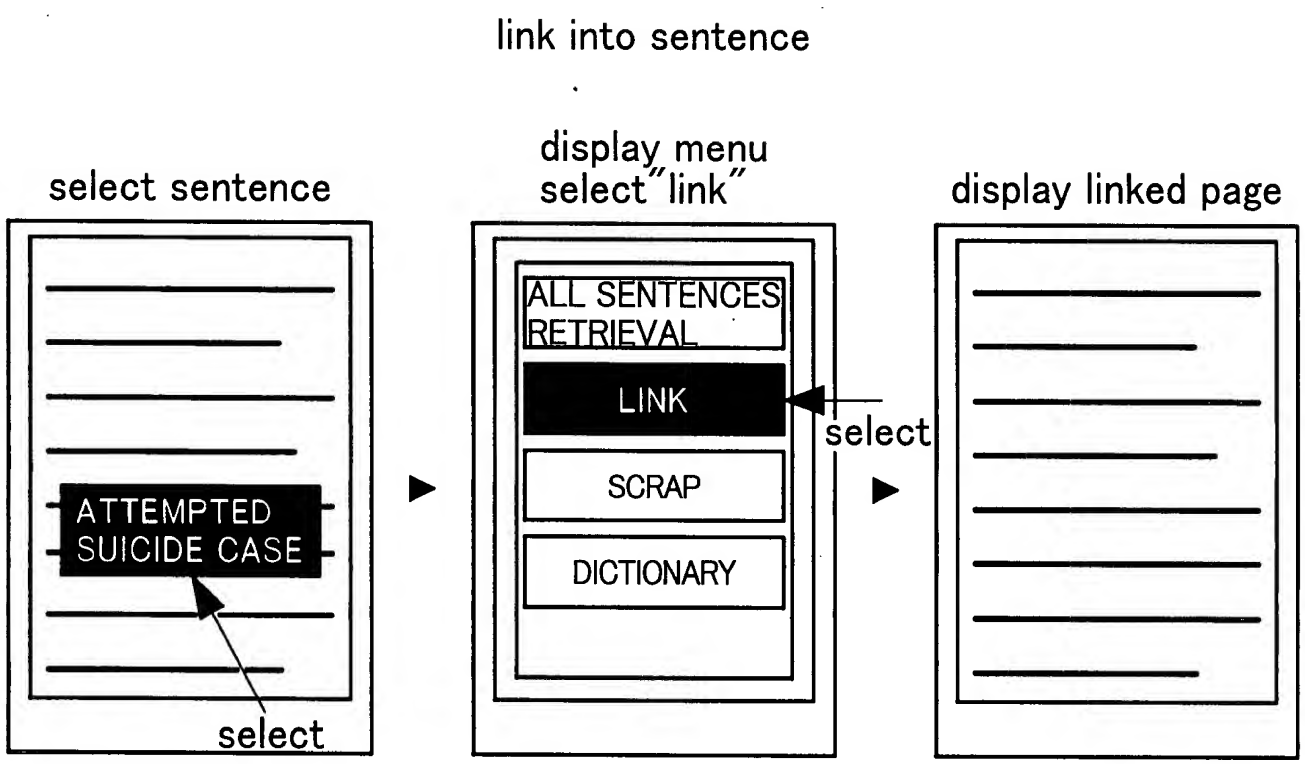

link into sentence
select sentence
display menu
select "link"
display linked page
ATTEMPTED SUICIDE CASE
select
ALL SENTENCES RETRIEVAL
LINK
SCRAP
DICTIONARY
select

FIG.15B

link to Web site

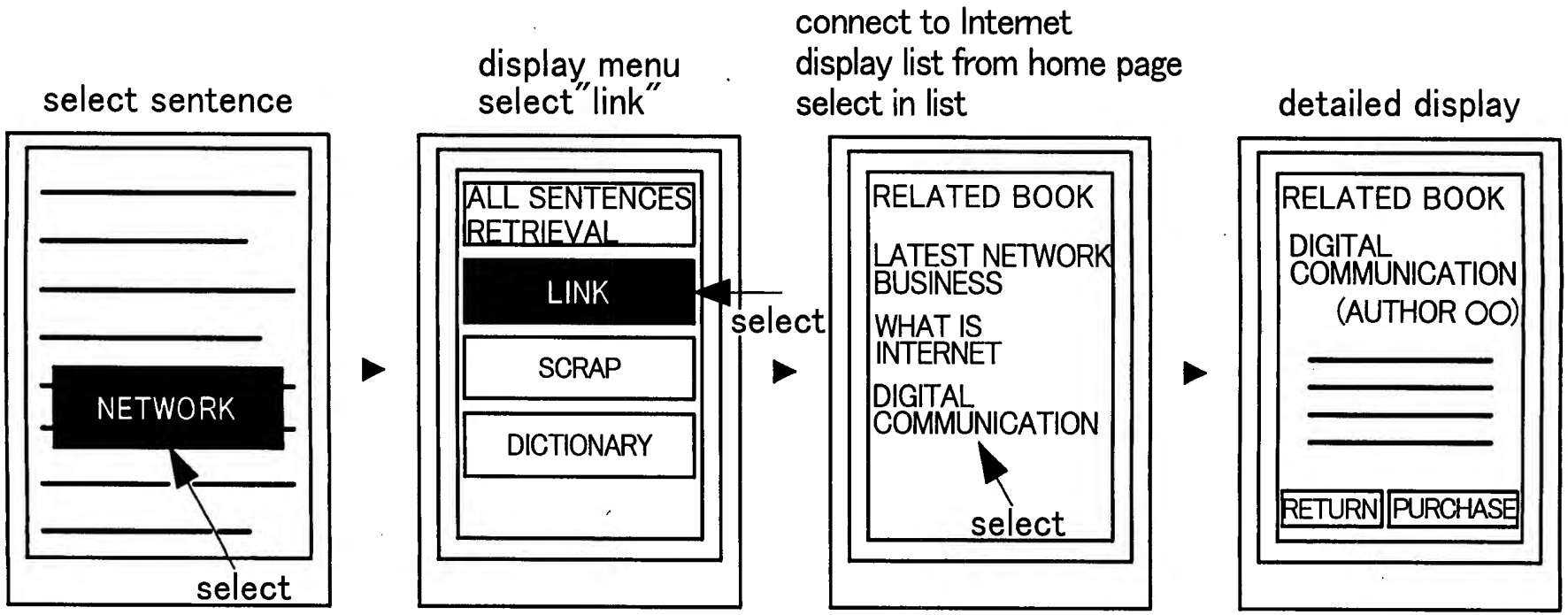


FIG.16A

Version up of contents

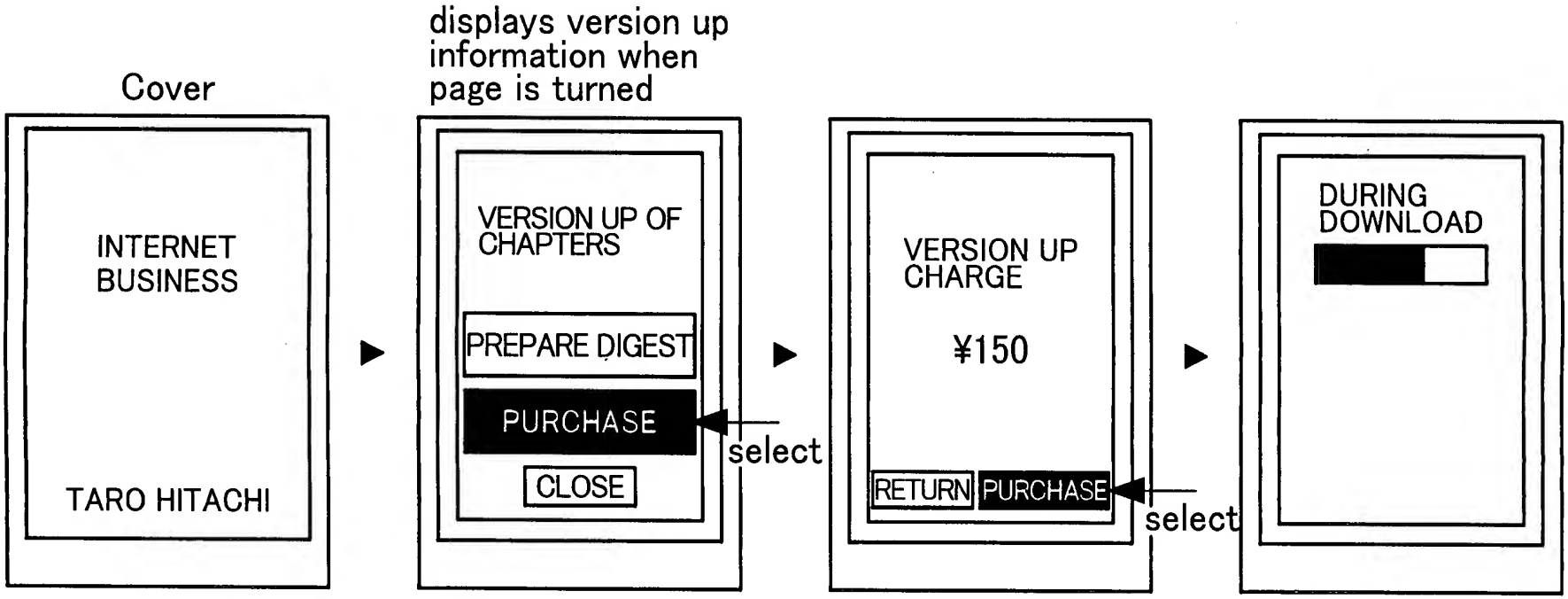


FIG.16B

hyper link contents display

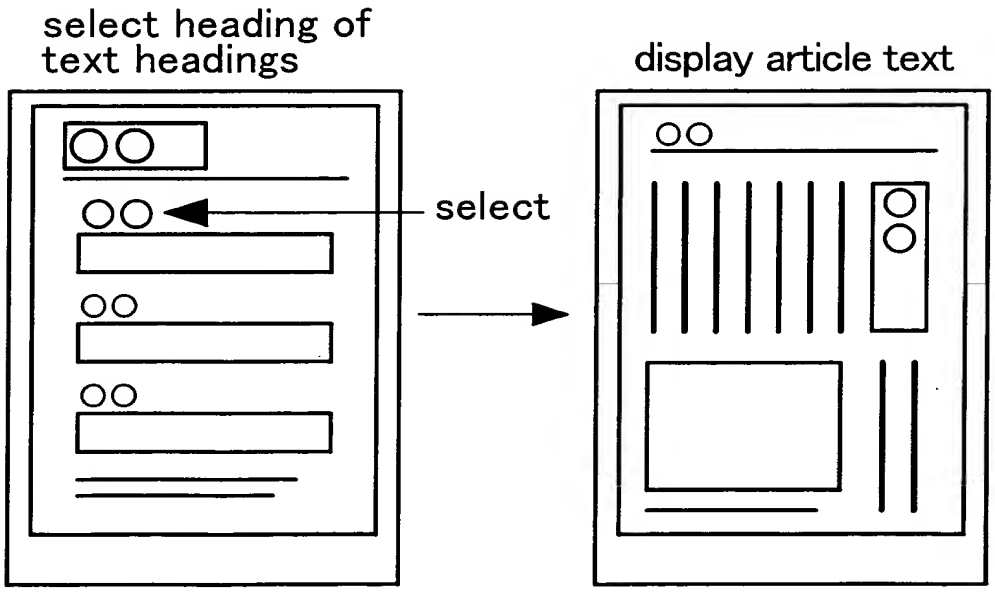


FIG.17

purchase subscription of next number

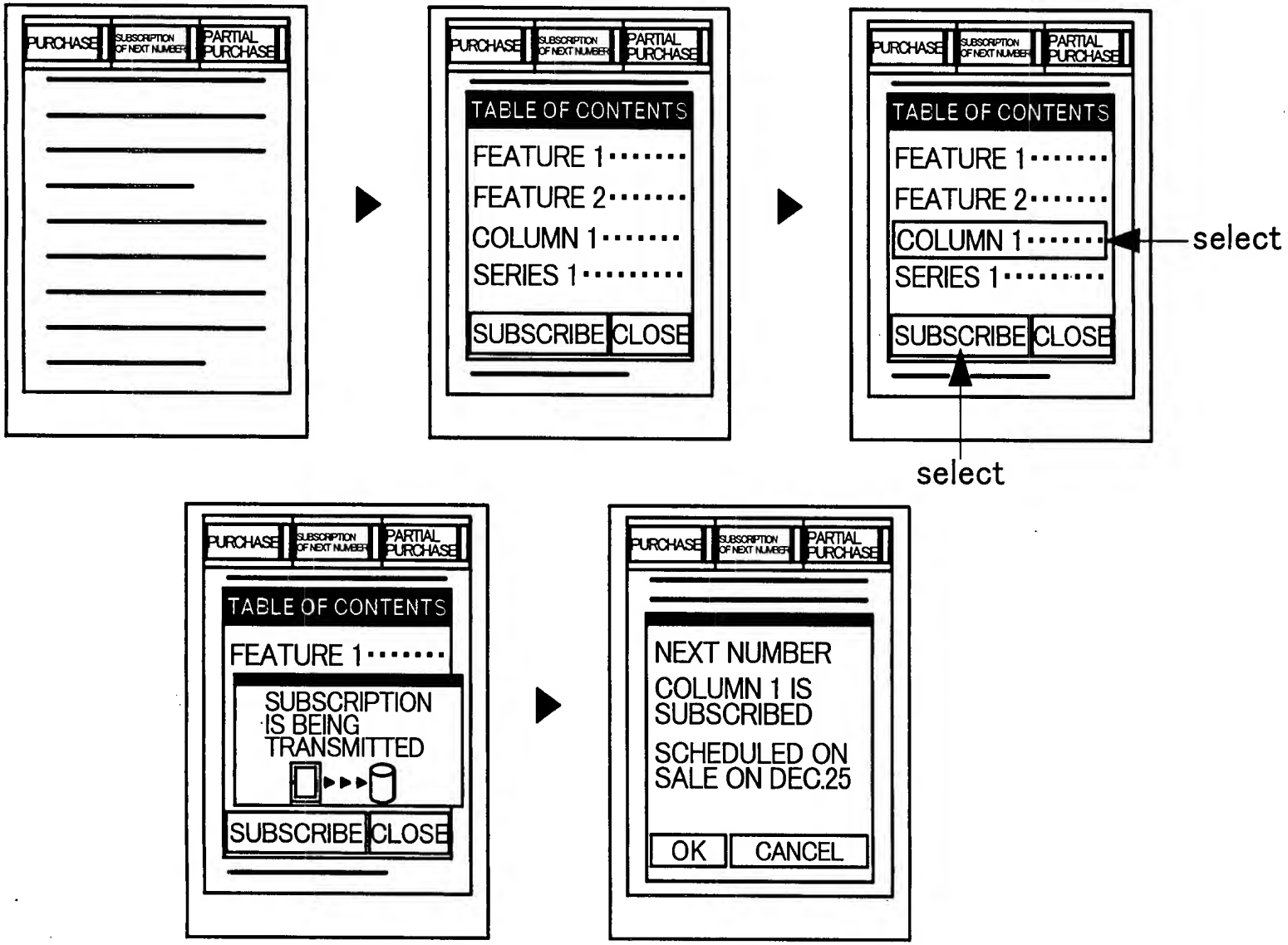


FIG.18

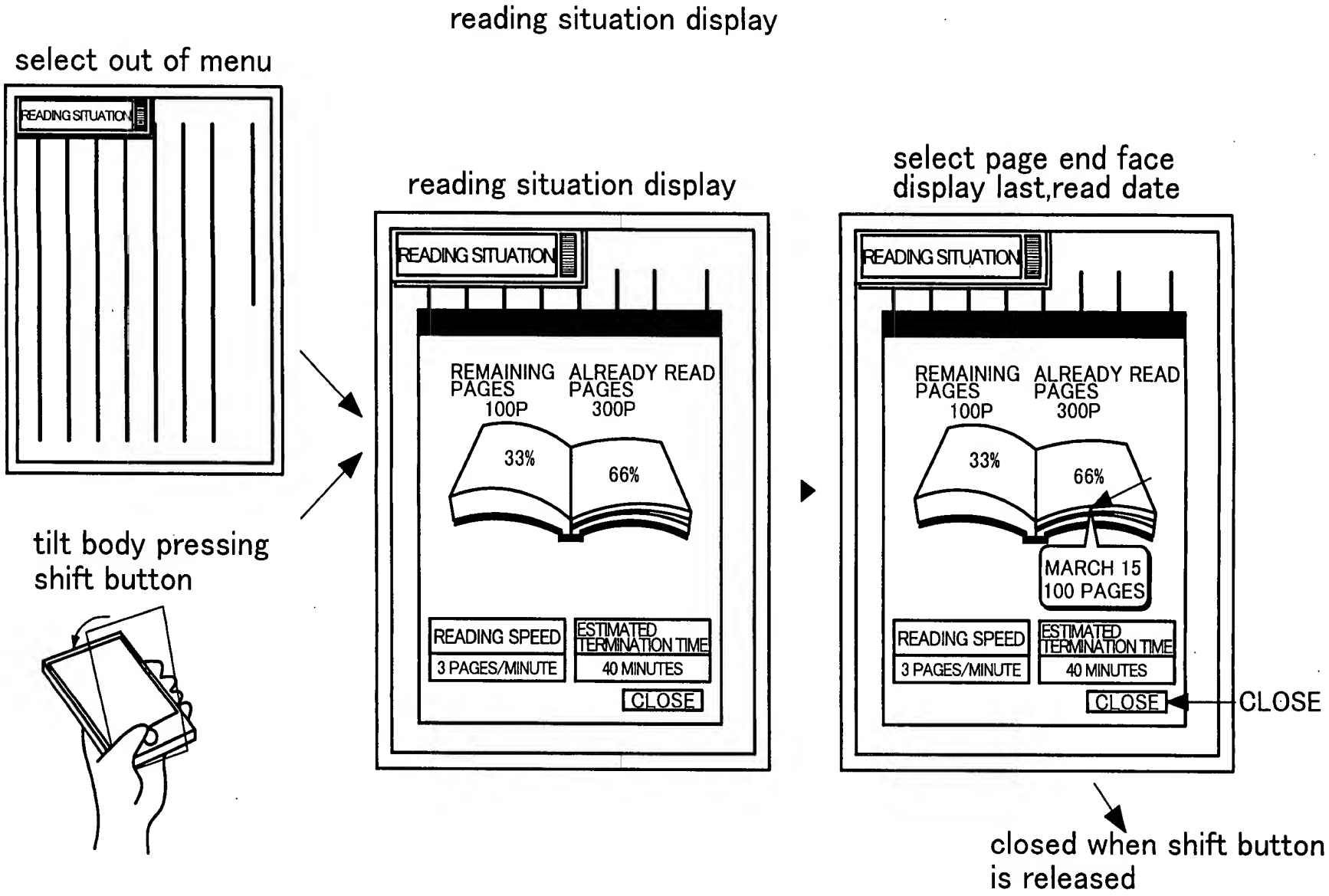

reading situation display
select out of menu
READING SITUATION
tilt body pressing
shift button
reading situation display
READING SITUATION
REMAINING PAGES 100P
ALREADY READ PAGES 300P
33%
66%
READING SPEED
3 PAGES/MINUTE
ESTIMATED TERMINATION TIME
40 MINUTES
CLOSE
select page end face
display last,read date
READING SITUATION
REMAINING PAGES 100P
ALREADY READ PAGES 300P
33%
66%
MARCH 15
100 PAGES
READING SPEED
3 PAGES/MINUTE
ESTIMATED TERMINATION TIME
40 MINUTES
CLOSE
CLOSE
closed when shift button
is released

FIG.19A

put label

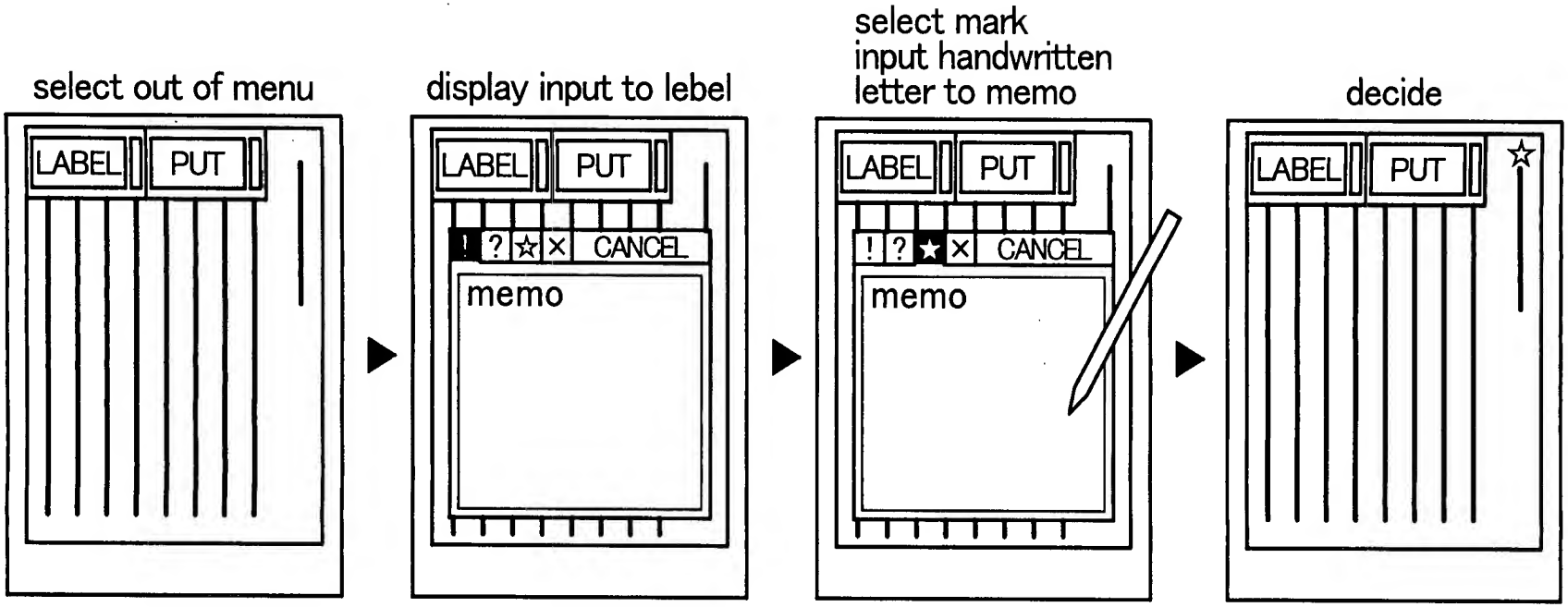
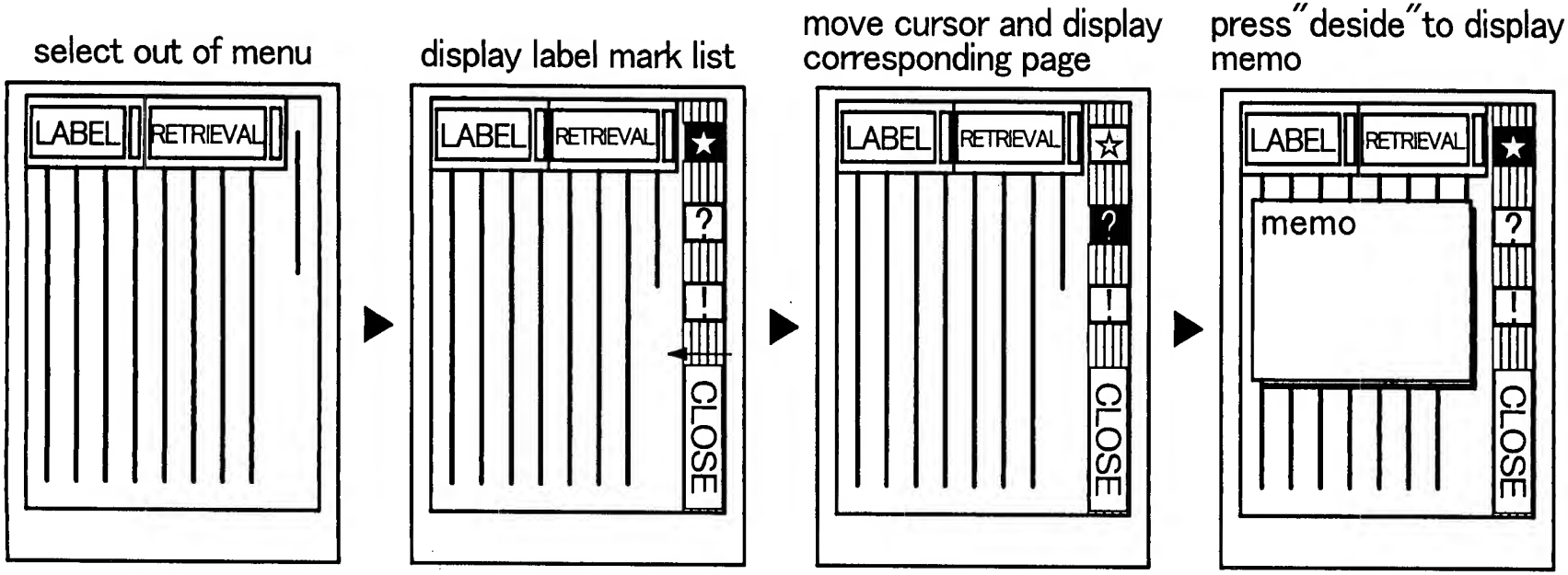


FIG.19B

retrieval of label



display menu

"turning-round menu" display many menus efficiently on small screen

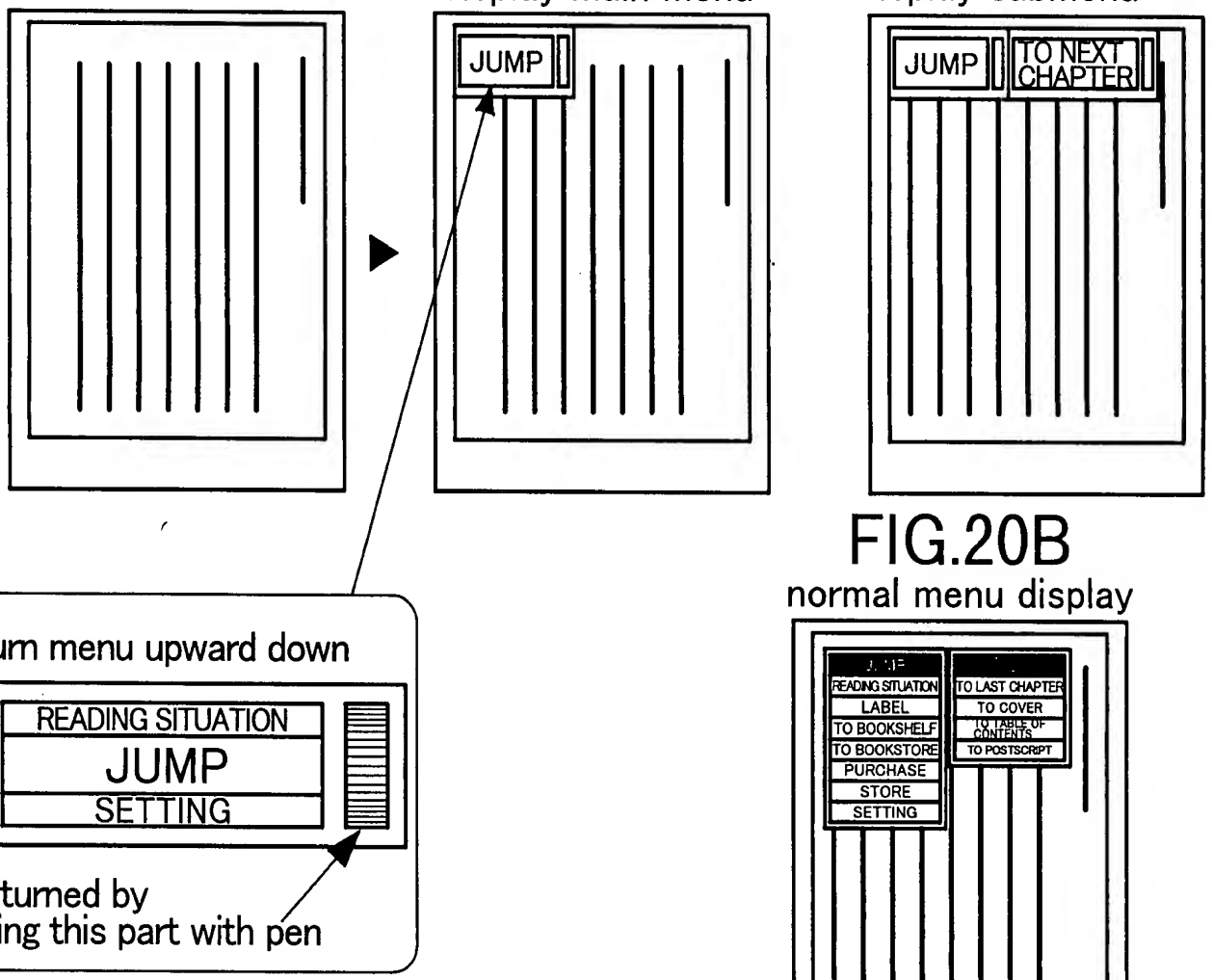


FIG.20A

FIG.20B

normal menu display

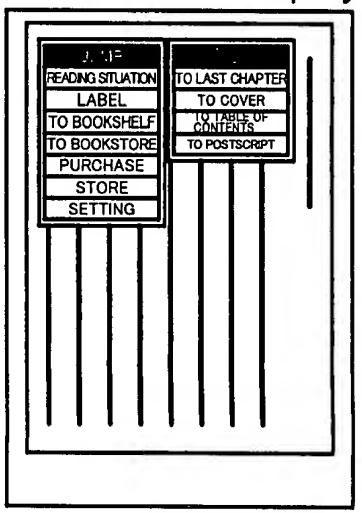


FIG.21A

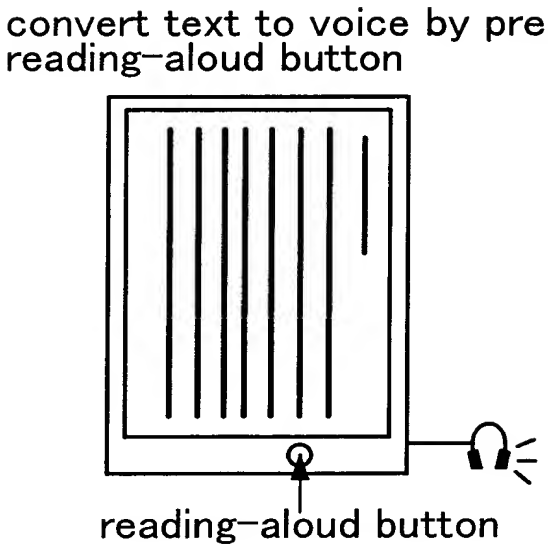


FIG.21B

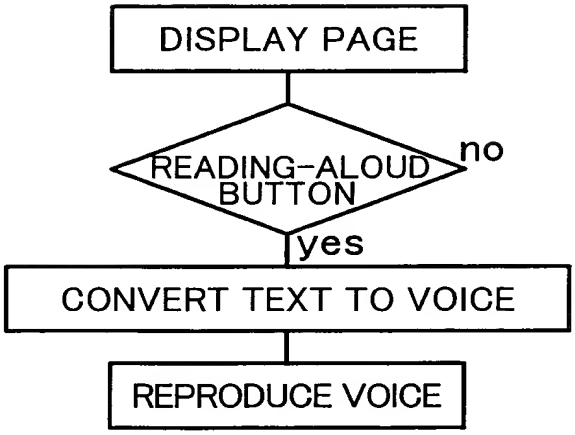


FIG.22A

novel

1.character correlation diagram

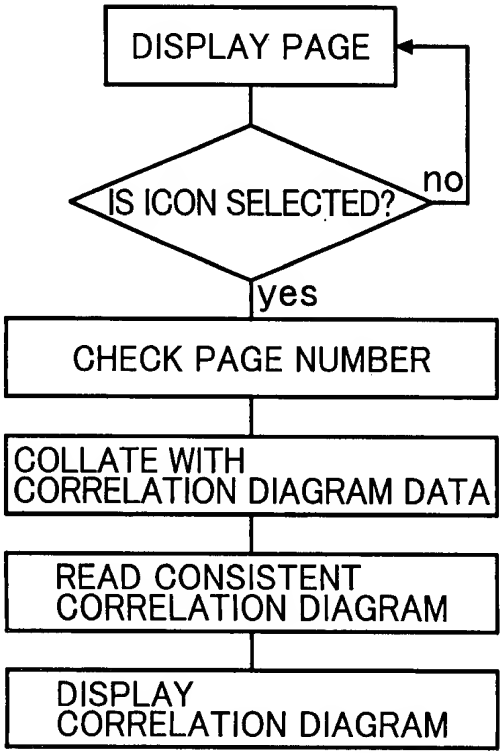
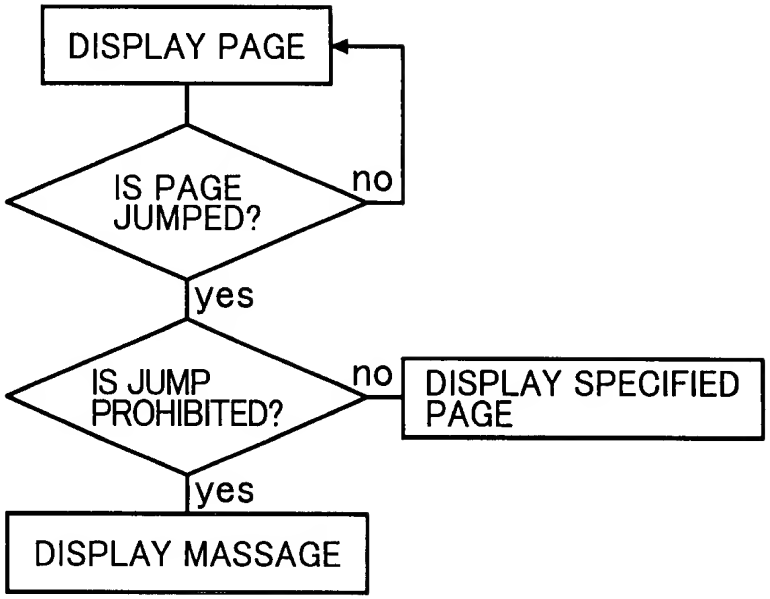


FIG.22B

2.skip prohibition function
(detective story)

3.designation of time
(horror novel readable only at night)

4.designation of season
(novel in accordance with season)



POSTER 3629216

FIG.23A

Newspaper

1.switching of layout headline/ title article headline display

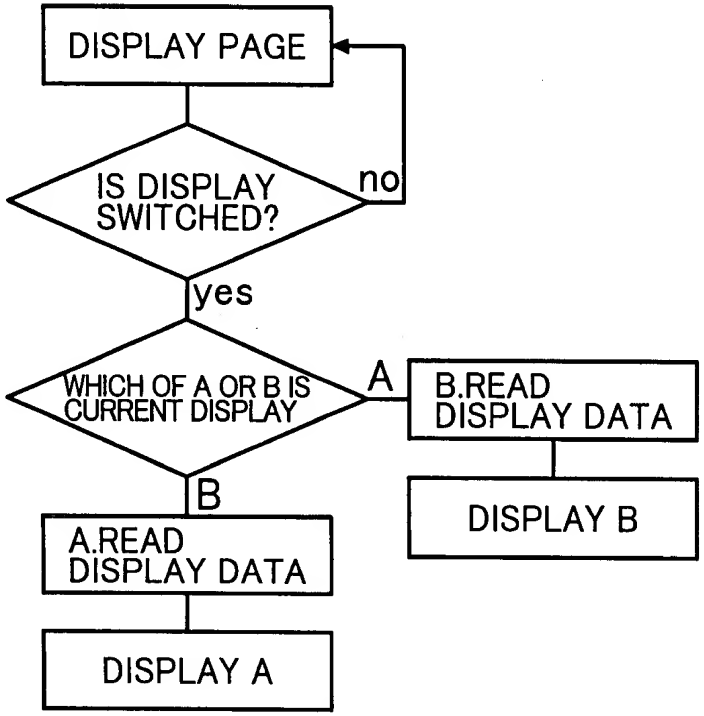


FIG.23B

●Magazine

1.overlapped text display utilizing space image

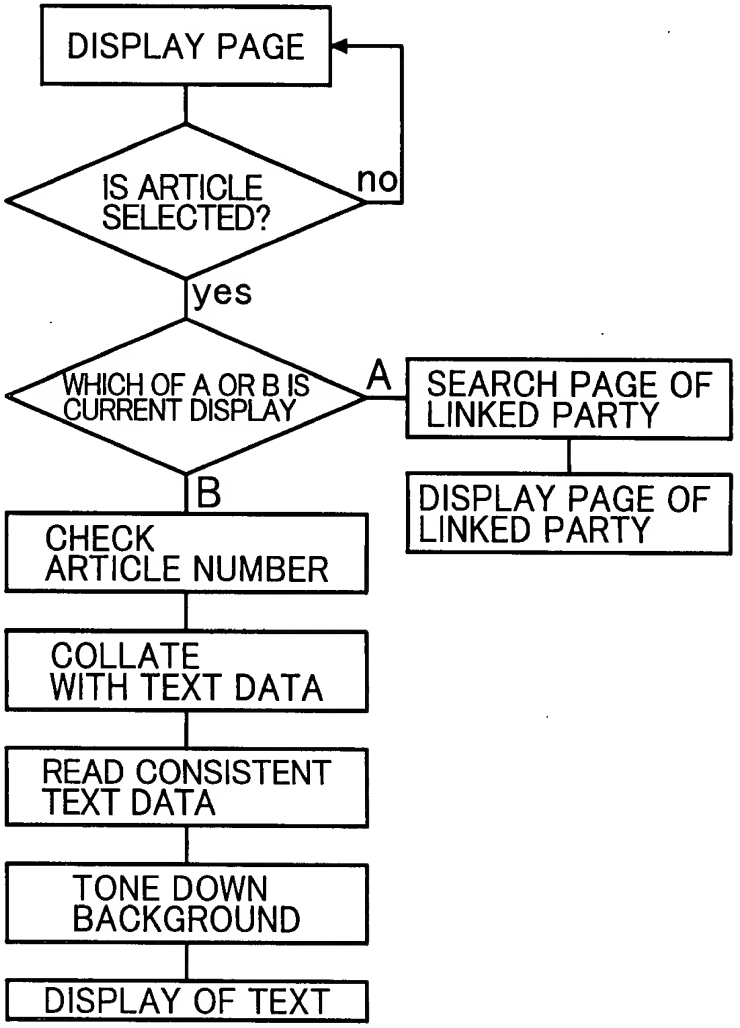


FIG.24A

maximum display whenever page is turned

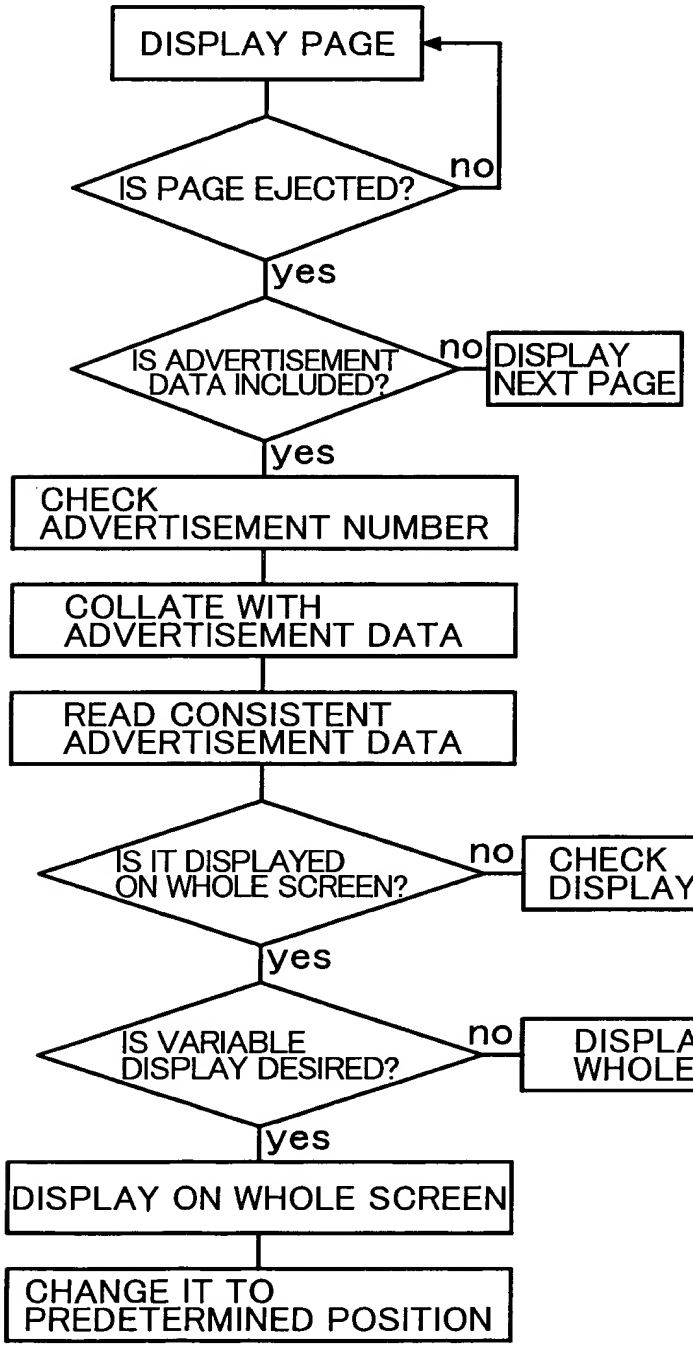


FIG.24B

hyper link advertisement display

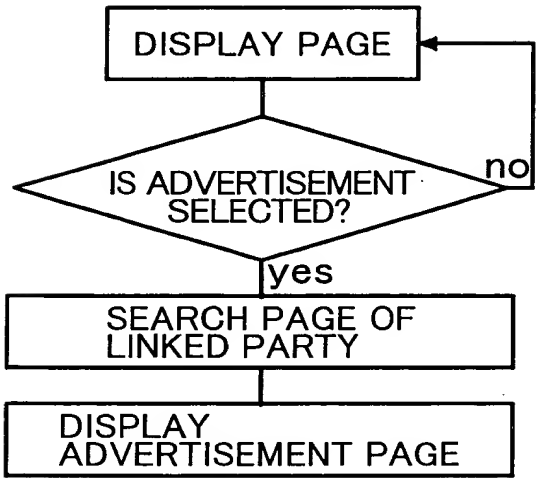


FIG.25

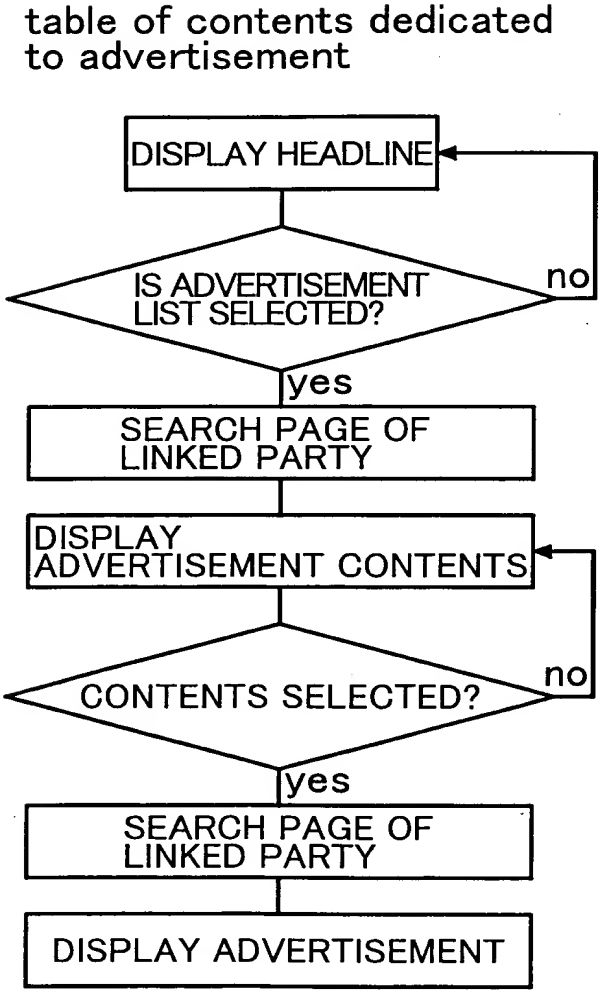


table of contents dedicated to advertisement
DISPLAY HEADLINE
IS ADVERTISEMENT LIST SELECTED?
no
yes
SEARCH PAGE OF LINKED PARTY
DISPLAY ADVERTISEMENT CONTENTS
CONTENTS SELECTED?
no
yes
SEARCH PAGE OF LINKED PARTY
DISPLAY ADVERTISEMENT

FIG.26A

Advertisement display in accordance with page contents

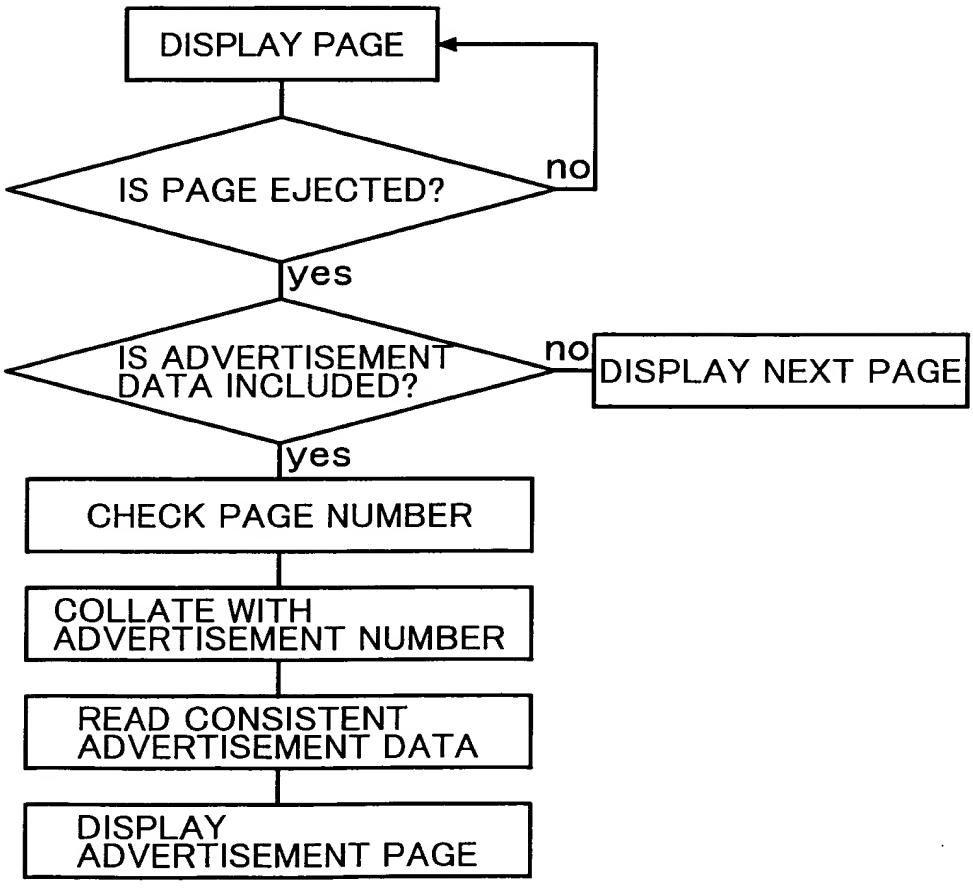


FIG.26B

bookmark with advertisement

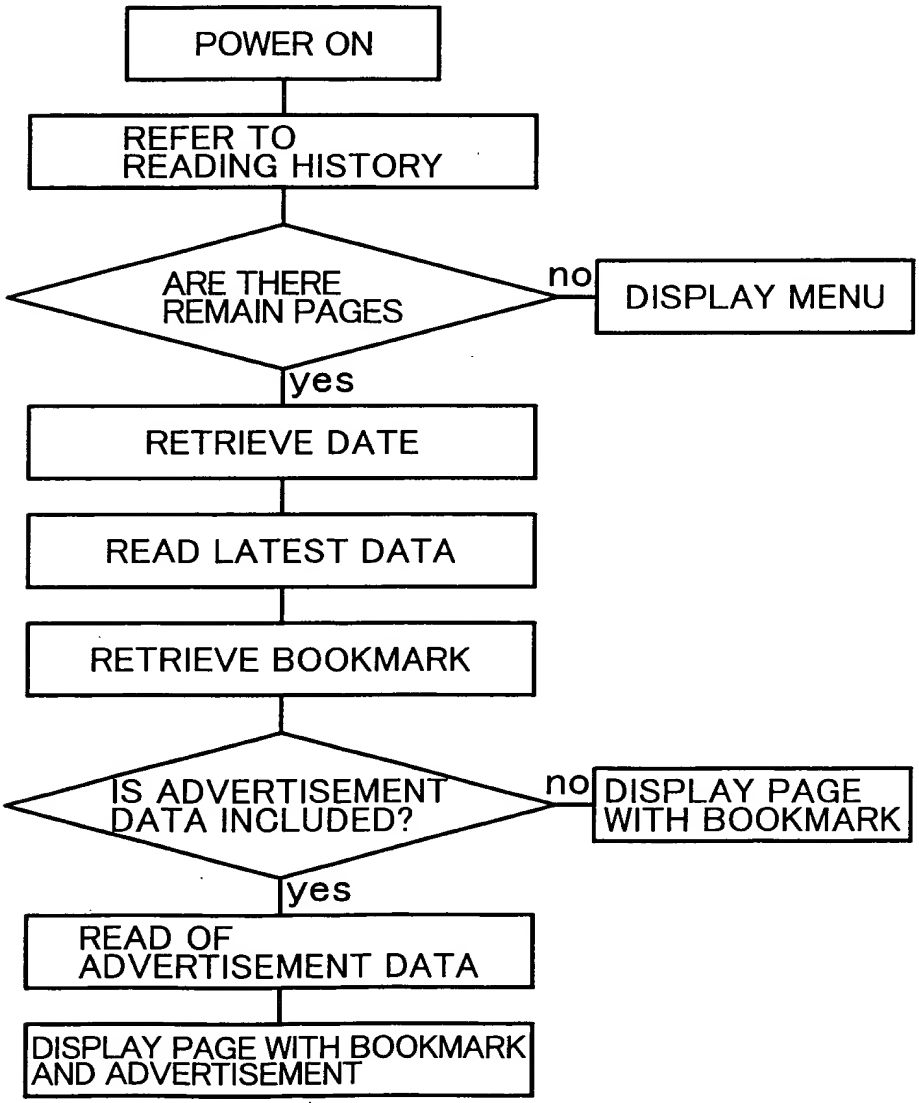


FIG.26C

band with advertisement (cover)

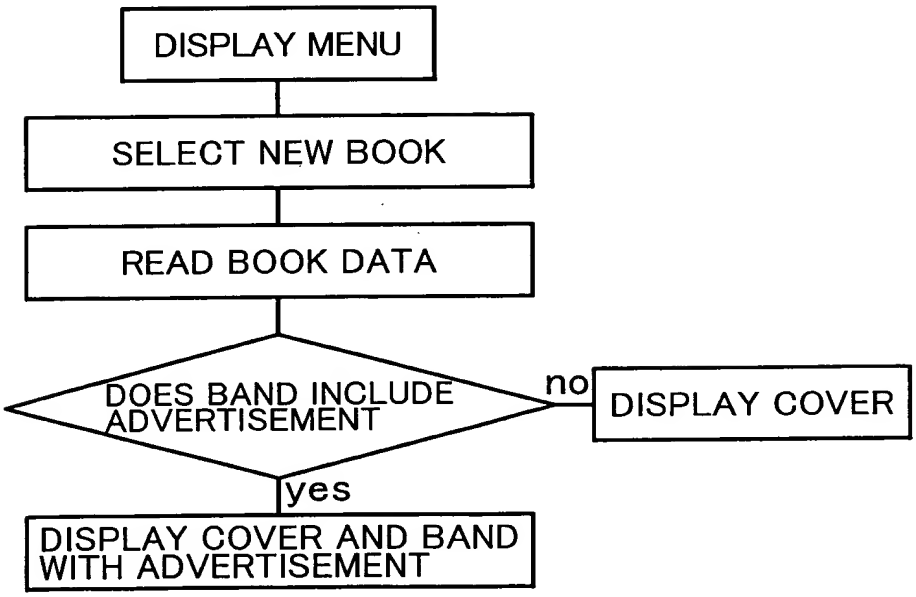


FIG.27

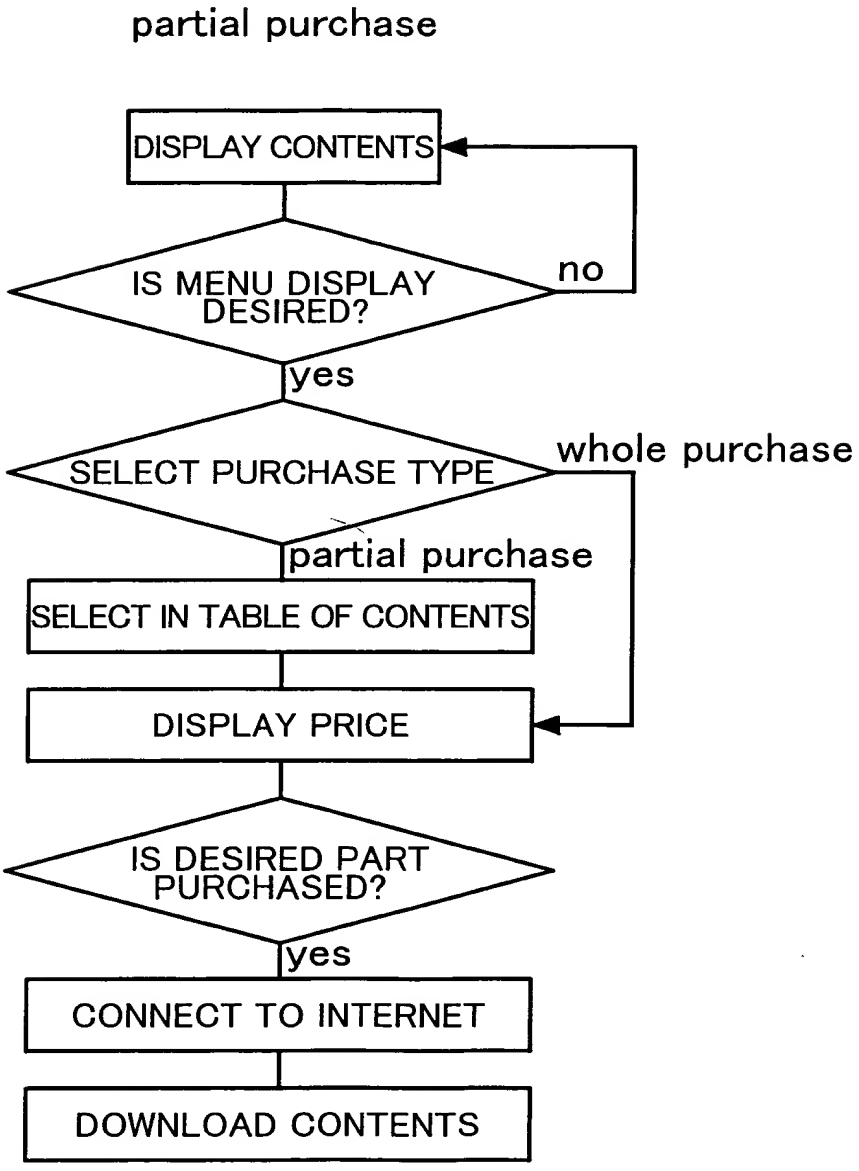

partial purchase
DISPLAY CONTENTS
IS MENU DISPLAY DESIRED?
no
yes
SELECT PURCHASE TYPE
whole purchase
partial purchase
SELECT IN TABLE OF CONTENTS
DISPLAY PRICE
IS DESIRED PART PURCHASED?
yes
CONNECT TO INTERNET
DOWNLOAD CONTENTS

FIG.28

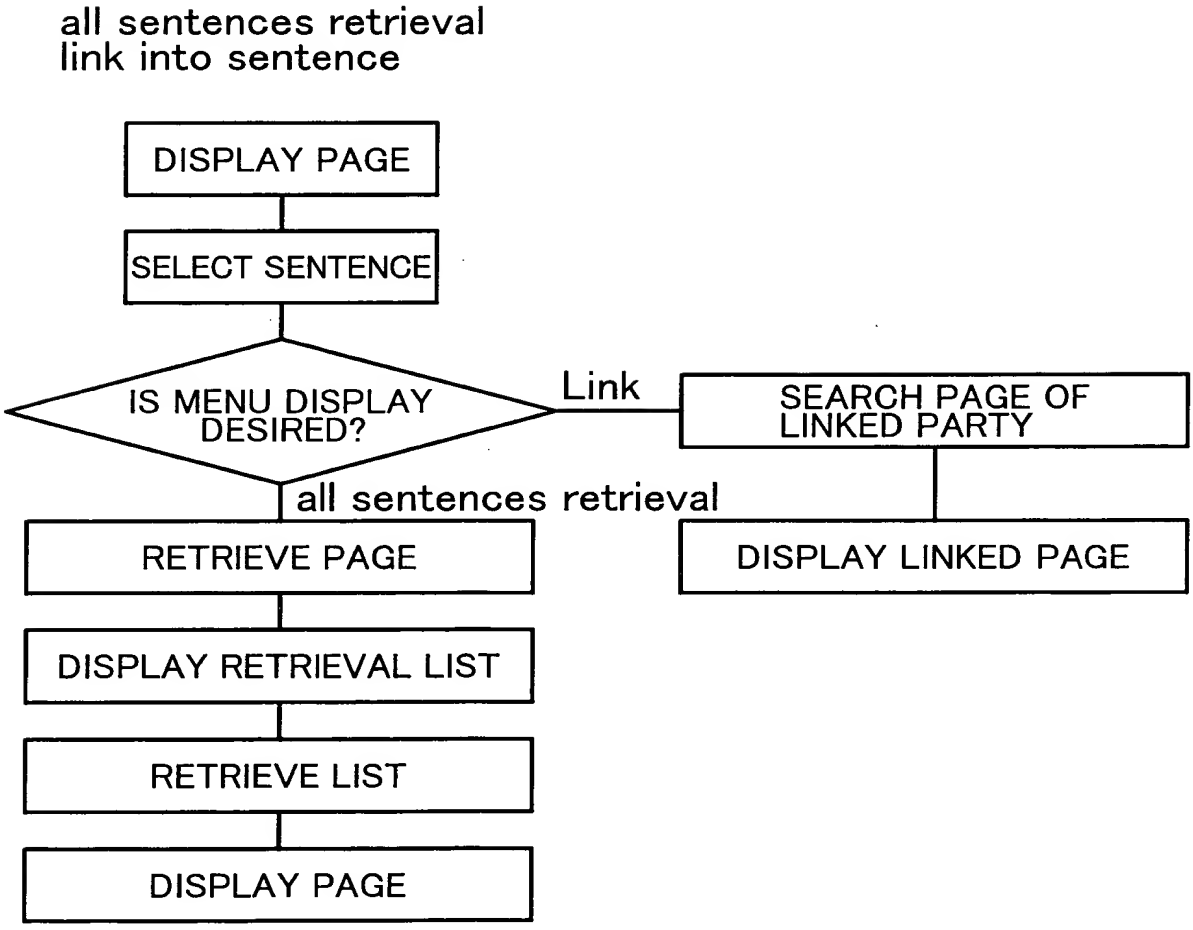

all sentences retrieval
link into sentence
DISPLAY PAGE
SELECT SENTENCE
IS MENU DISPLAY DESIRED?
Link
SEARCH PAGE OF LINKED PARTY
all sentences retrieval
RETRIEVE PAGE
DISPLAY LINKED PAGE
DISPLAY RETRIEVAL LIST
RETRIEVE LIST
DISPLAY PAGE

FIG.29

link to Web site(Internet)

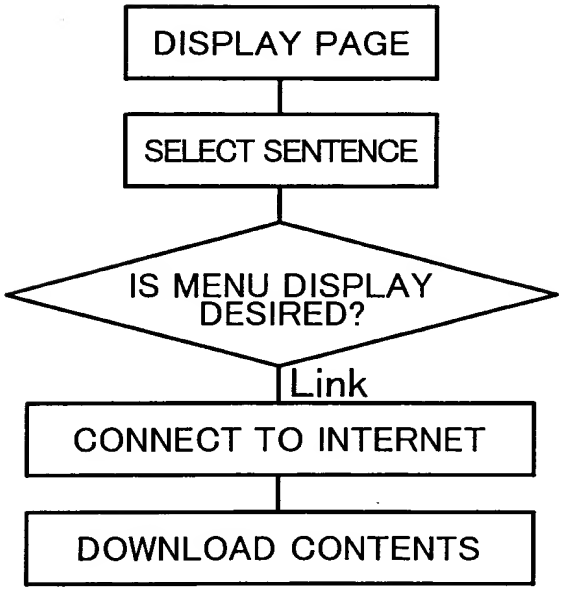


FIG.30

Version up of contents

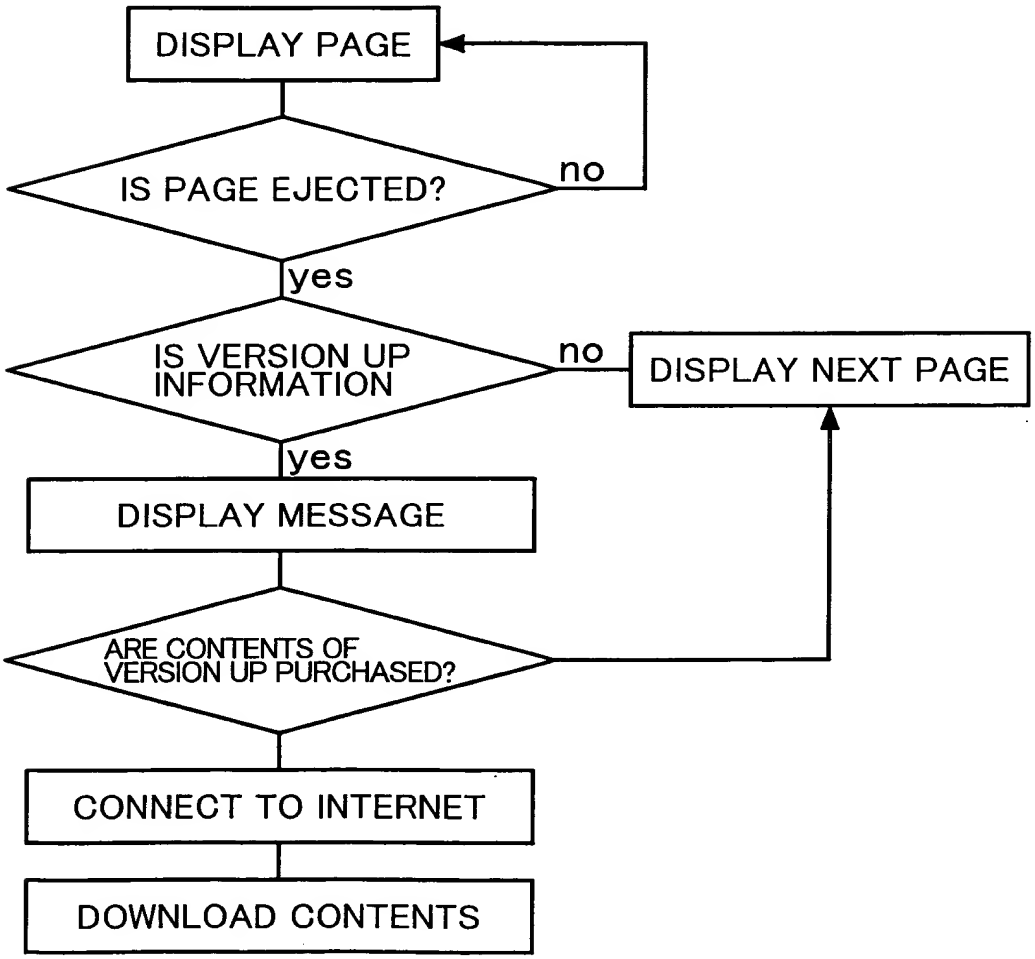


FIG.31

hyper link contents display

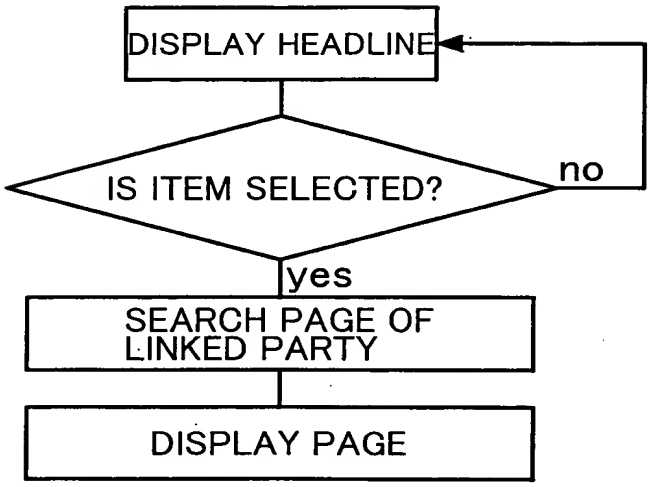


FIG.32

subscription of next number
and partial purchase

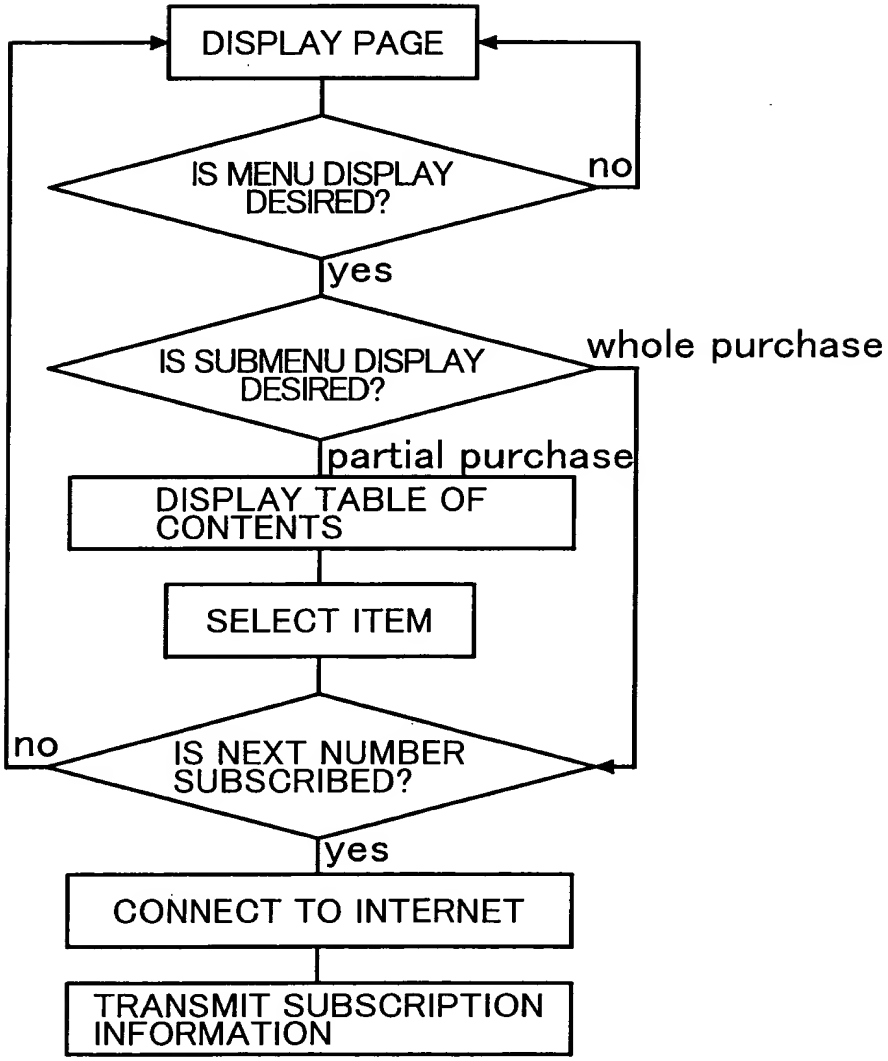


FIG.33

reading situation display

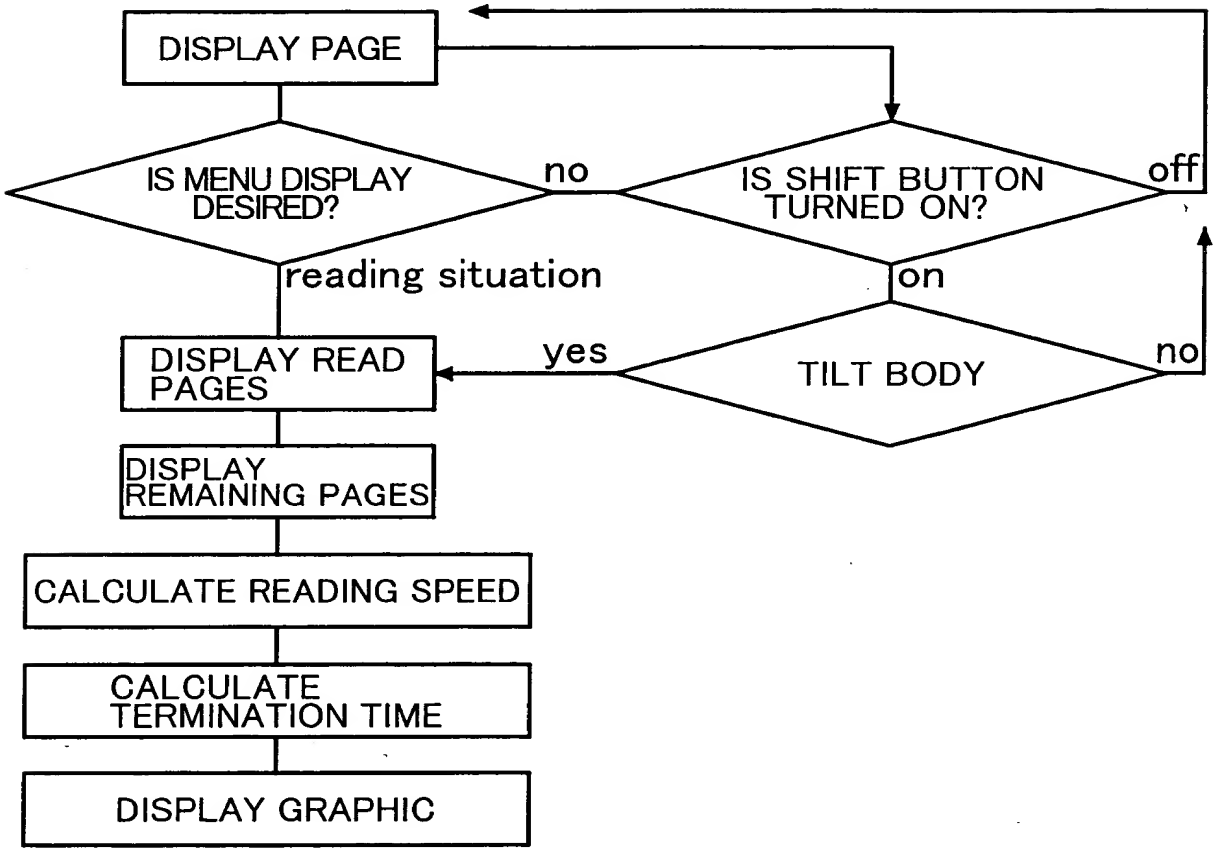


FIG.34

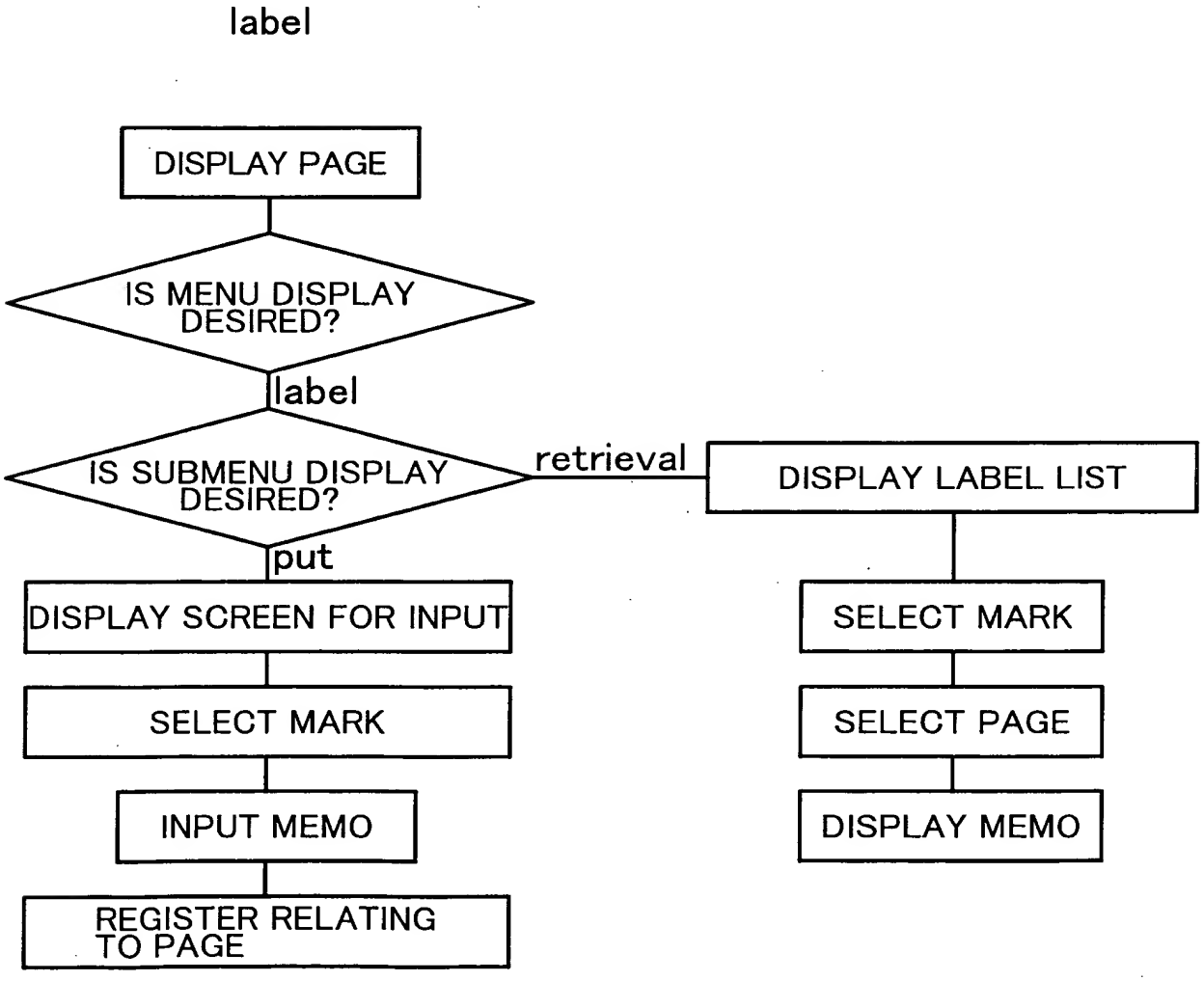

label
DISPLAY PAGE
IS MENU DISPLAY DESIRED?
label
IS SUBMENU DISPLAY DESIRED?
retrieval
DISPLAY LABEL LIST
put
DISPLAY SCREEN FOR INPUT
SELECT MARK
INPUT MEMO
REGISTER RELATING TO PAGE
SELECT MARK
SELECT PAGE
DISPLAY MEMO

FIG.35A

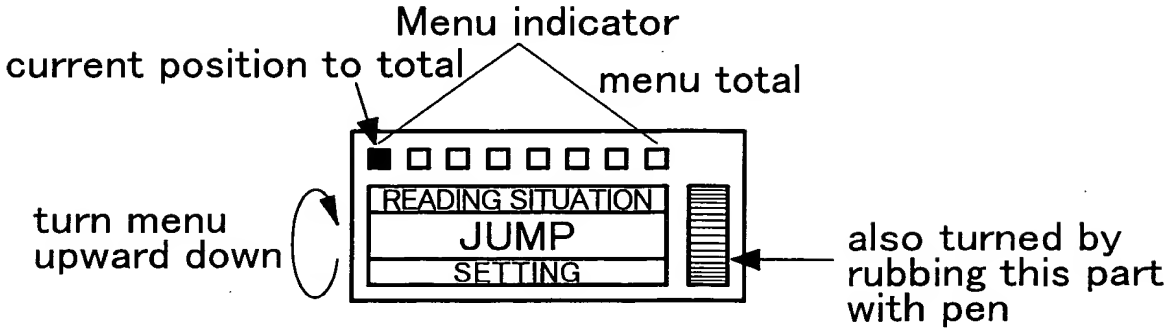
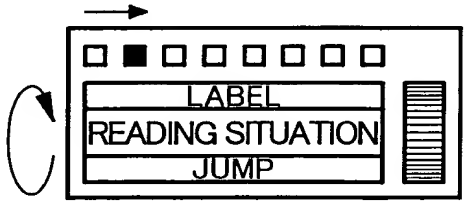
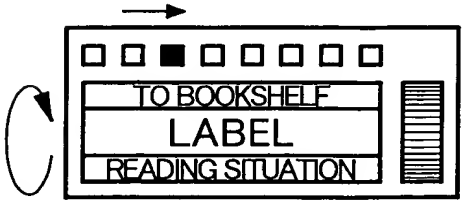


FIG.35B

examples of change of indicator by switching of display





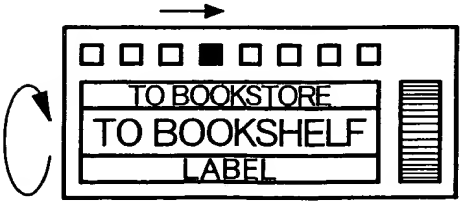


FIG.36A

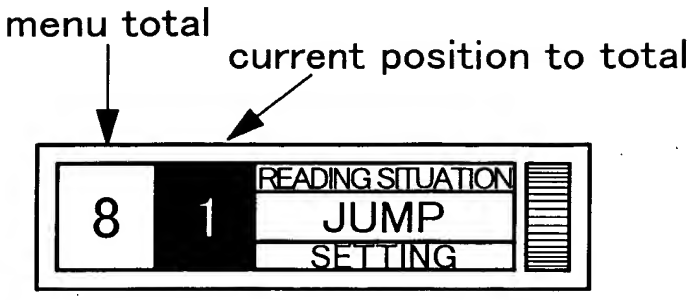


FIG.36B

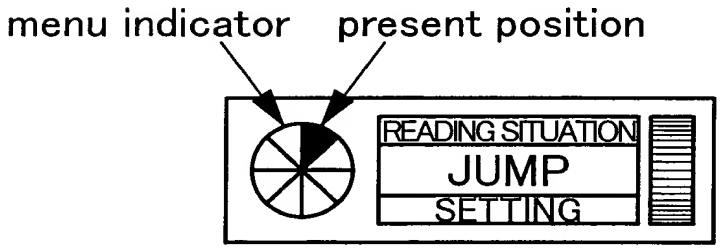
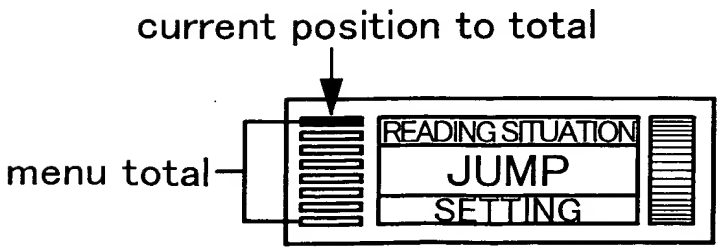



FIG.36C